

Finishing
Trades
Institute

INTERNATIONAL

PROGRAMS OF STUDY & COURSE CATALOG



International Finishing Trades Institute
iFTI.edu

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About the iFTI

The International Finishing Trades Institute (iFTI) is an educational endeavor of the International Union of Painters and Allied Trades (IUPAT). The core purpose of iFTI is to develop and expand a qualified and competitive workforce for the finishing trades industries. The iFTI supports joint apprenticeship training programs where those who wish to enter our trades learn their craft. We provide the necessary skills to do the job right the first time and the training to do it safely.

Everyone who enters the trade makes a definite commitment to themselves as well as to the employer. This includes a commitment to:

- Work diligently
- Learn new techniques as well as improve on those already learned
- Maintain an attitude that promotes learning
- Exercise a high degree of maturity in all matters related to the job

The iFTI provides ongoing education and training for all our union members by strengthening the curriculum and instruction development and implementation in such a way that it is consistent with our mission to continue to set the standard of excellence in the trades our members represent.

The iFTI curriculum involves a series of standardized instructional and learning resources, both classroom and hands-on, for each craft the IUPAT represents. To stay current with industry standards, curriculum materials are constantly being reviewed, updated, and developed in partnership with major manufacturers to provide state-of-the-art curriculum and training for its members. To know more about the iFTI, check the website - <http://www.ifti.edu>.

This workforce solution was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This solution is copyrighted by the institution that created it. Internal use, by an organization and/or personal use by an individual for non-commercial purposes, is permissible. All other uses require the prior authorization of the copyright owner.

Programs of Study

The programs of study, known as crafts, include a narrative description of each craft, program competencies, recommended On-the-Job Learning (OJL) and Related Instruction (RI) hours, and suggested courses of study for each craft.

Course Numbering

Unique course numbers are assigned per curriculum/trade:

ABBREVIATION	COURSE #	TRADE and DESCRIPTION
COR	100 and 1000	Core curriculum courses available to all crafts
CAS	2000	Industrial Coating and Lining Application Specialist courses
CI	2000	Coatings Inspector
DRY	3000	Drywall Finisher courses
FLR	4000	Floor Coverer courses
GLZ	5000	Glazier courses
HVT	6000	Hydro Blaster/Vacuum Technician courses
PNT	7000	Painter-Decorator courses
SGN	8000	Sign and Display Worker courses
TDS	9000	Trade Show Worker courses

Customized course numbers for the International, District Councils, and languages:

ABBREVIATION	COURSE #	TRADE and DESCRIPTION
CAN	1000-7000	Canadian courses
C(DC No.)	1000-7000	Classroom Training – <i>C plus District Council No. (e.g. C57)</i>
DEG	8000	Degree program participants' residency classes in Hanover
DOT	1000-7000	Directors of Training seminars/webinars/sessions
FRE	1000-7000	French courses
FTI	1000-7000	Classroom training conducted at the International Training Center, Hanover Requirements for COE-accredited Associate Instructor and Master Instructor programs
KID	1000-7000	Catalog for kids 7 years old and above (Vubiz bundle)
PORT	1000-7000	Portuguese courses
SPN	1000-7000	Spanish courses

Course Sample

Below is a sample course name and course code:

*The **first number** in each course represents the specific craft. The **second number** in each course represents the program competency category. The **third and fourth numbers** represent the course sequence within a given program competency category.*

Sample Course Code and Course Name

PNT 7500 (Introduction to Spray Painting), indicates that it is a course within the Painter-Decorator craft and is the first course within the Spray Painting competency category sequence.

Within the Spray Painting competency category sequence

PNT 7500 **Introduction to Spray Painting**

Course Title

Course within the Painter-Decorator craft



Contact Hours

Course completion is based on the combined total of online learning and related instruction (RI) hours in the classroom and/or lab setting. Under this hybrid approach an apprentice must participate in the indicated minimum number of hours of OJL for each category of the program. The training instructor or coordinator is responsible for determining if an apprentice completed the mandated hours of the apprenticeship program through this hybrid approach.

On-the-Job Learning (OJL) hours are tracked by your District Council. Your training instructor or coordinator determines your final course completion.

See the individual program of study for specific course contact hours/credits/estimated hours.

Course Codes

Selected courses have additional acronyms at the end of the course numbers or special characters after the main course title. The letters represent the different types of course content found in the iFTI Learning Management System (LMS). The asterisks represent courses/lessons provided by third-party eLearning websites.

Sample	Acronym/Character	Represents
COR 1125A	A	Assessment Only
COR 1125C	C	Certification
C57 1125C	C	Certification (Classroom Training for DC 57)
COR 1125I	I	Instructor Access
COR 1125S	S	Student Access
COR 1164 Bloodborne Pathogens*	*	Third-party Website Online Course to be paid the Affiliate/Training Fund

Certification Course Codes

Certification is an official certificate of competency issued in accordance to the standards of a qualified training provider e.g. [OSHA Act of 1970](#). The iFTI Learning Management System (LMS) automatically transfers certifications from the LMS transcript to the IMSe and the IUPAT app. The member can only view **course codes ending in C** on the IUPAT app.

Third-party Course Codes

The iFTI LMS houses 2,000 courses and out of these, 165+ are third-party. Third party courses are online lessons provided by educational partners such as Click Safety, Red Vector, and Vubiz. Third party course names are marked with an asterisk (*) at the end of the course name e.g. *COR 1225 Communication and Leadership**. These courses are for DOT approval and are closed for self-enrollment to avoid unnecessary charges. To learn more about third party courses, review the [LMS article](#).

In reference to the [iFTI Newsletter dated January 29, 2020](#), please find the [Price List](#) for all online third-party courses available in the iFTI LMS. Some important reminders:

- Invoice is per user, per enrollment, per year starting in January.
- Course resets are considered new enrollments.
- Invoice will be sent to the District Council Training Fund.

All District Council training funds will be billed directly for all third party course enrollments on a quarterly basis. Single course invoices will come from the K-Learning Group, 1701 Cabin Branch Drive, Cheverly, MD 20785 and will be due within 30 days of the invoice date.

Acronyms

Acronym	Meaning
AED	Automated External Defibrillator
AWS	American Welding Society
CDL	Commercial Driver's License
CPR	Cardiopulmonary Resuscitation
EIFS	Exterior Insulation and Finishing System
EPA	Environmental Protection Agency
EPS	Expanded Polystyrene
ESD	Electrostatic Discharge
GVWR	Gross Vehicle Weight Rating
HAZ COM	Hazardous Communication
HAZWOPER	Hazardous Waste Operations and Emergency Response
HUD	Housing and Urban Development
HVAC	Heating, Ventilating, and Air Conditioning
HVLP	High-volume, Low Pressure
IFTI	International Finishing Trades Institute
IMS/IMSe	Integrated Membership Services (Enhanced)
IUPAT	International Union of Painters and Allied Trades
J-BAR	Johnson Bar
LED	Light-emitting Diode
LEED-NS	Leadership in Energy and Environmental Design - New Construction
LMS	Learning Management System
MDO	Medium Density Overlay
MSDS	Material Safety Data Sheet
OJL	On-the-Job Learning
OSHA	Occupational Safety and Health Administration
PPE	Personal Protective Equipment
PV	Photovoltaic
PVC	Polyvinyl Chloride
RRP	Renovation, Repair and Painting
STP	Supervisory Training Program
TWP	Top Workplace Performance
VCT	Vinyl Composition Tile
VESL	Vocational English as a Second Language
VOC	Volatile Organic Compound

NOTE: Other acronyms are specific to the course. Please check their course description.

Trade and Competencies

The Program level curriculum builds upon the foundation of the core curriculum skills, knowledge, and abilities. At the program level, a craft-specific standardized curriculum is designed by an ad-hoc committee comprised of the iFTI Curriculum Department, IUPAT/iFTI subject matter experts, employers, manufacturers, and associations.

Apprentices will be assessed on their acquisition of knowledge, skills, and abilities in the core curriculum through hands-on and written tests as well as On-the-Job Learning (OJL) performance measures.

Additionally, the apprentices will integrate their core knowledge, skills, and abilities into the pursuit of specific craft training throughout the term of their apprenticeship. This program-specific training is designed to build the technical and professional skills needed by the craftsman to successfully perform his or her trade profession.

The COR/Crafts curricula represented in the International Finishing Trades Apprenticeship Program are:

No.	Course No.	COR/Trade
1.00	100/1000	Introduction to the Union and Construction Trades
2.00	1100	Health and Safety in the Construction Trades
3.00	1200	Leadership and Professional Development
4.00	2000	Coating Application Specialist (CAS) (Painter-Industrial)
	2000	Coatings Inspector
5.00	3000	Drywall Finisher
6.00	4000	Floor Coverer
7.00	5000	Glazier
8.00	6000	Hydro Blaster Vacuum Technician
9.00	7000	Painter-Commercial
10.00	8000	Sign and Display
11.00	9000	Trade Show Worker/Exhibit Builder



NOTE: Metal Polish Worker and Sign and Display Worker currently do not have any approved standards and courses in the LMS.

Core Curriculum

Overview

The Core Curriculum program of the IUPAT/International Finishing Trades Institute is designed to provide a foundation on which apprentices in multiple crafts will be exposed to a uniform body of theoretical knowledge and practical skills needed to be a successful crafts person in the finishing trades.

While participating in the core curriculum program of study, apprentices will be exposed to On-the-Job Learning (OJL) and Related Instruction (RI) in the following disciplines.

Apprentices will be assessed on their acquisition of knowledge, skills and abilities in the core curriculum through hands-on and written tests as well as On-the-Job Learning (OJL) performance measures.

Additionally, the apprentices will integrate their Core knowledge, skills and abilities into the pursuit of specific occupational training throughout the term of their apprenticeship. This program specific training is designed to build the technical and professional skills needed by the apprentice to successfully perform his/her occupation.



Competencies

Apprentices successfully completing an apprenticeship program will be proficient in the following competencies identified in the Core Curriculum:

1.0 Introduction to the Union and Finishing Trades

- Analyze the IUPAT's role in the labor movement from 1887 to the present.
- Identify the organizational responsibilities of the IUPAT to its members.
- Demonstrate the individual's responsibilities as an IUPAT member.
- Recognize the structure of the IUPAT at the International, District Council, and Local Union levels.
- Display good character and ethical behavior in all matters personal and professional.
- Demonstrate effective skills and knowledge using computers and related technology and applications.
- Utilize trade-related tools and equipment.
- Interpret drawings related to the finishing trades.
- Apply trade math calculations on the job.
- Demonstrate sustainable/green building design awareness on all construction sites and in all trade practices.

2.0 Health and Safety

- Recognize and apply the fundamentals of worker and jobsite safety Occupational Safety and Health Administration (OSHA) on the construction site.
- Perform the proper application of First Aid, Cardiopulmonary Resuscitation (CPR), and Automatic External Defibrillator (AED) on the job.
- Display healthy ergonomic practices in the workplace and on the construction site.
- Demonstrate awareness and lead-safe work practices on the jobsite.
-

3.0 Leadership and Professional Development

- Clearly and appropriately express ideas and other information through good oral, listening and writing skills to all levels of personnel.
- Demonstrate creativity, integrity and other influential qualities and characteristics necessary to successfully lead as a foreman, project manager or jobsite supervisor.
- Execute planning and organizational skills necessary to successfully complete a job on time and on budget.
- Recognize and apply emerging technologies in the occupation in order to elevate the industry.



Suggested Program of Study for the Core Curriculum Competencies

The IUPAT/iFTI Program of Study for the Core Competencies OJL and RI is outlined below. Under this hybrid occupation, an apprentice must participate in the indicated minimum number of hours of OJL for each category of the occupation. The Program Sponsor is responsible for determining the number of RI hours that an apprentice must participate in based on the iFTI guidance, local needs, and the mandated minimum of 144 hours per year (29 CFR 29.5(b)(4)).

COURSE NUMBER	CATEGORY NAME	OJL MINIMUM HOURS	RI MINIMUM HOURS
COR 1000	History of IUPAT		4
COR 1002S	Survival of the Fittest (Student Access)	16	2
COR 1003	Introduction to Green Building		4
COR 1001	Sexual Harassment*		1
COR 1004S	Basic Mathematics and Measurements (Student Access)		12
COR 1008	Basic Computing - No Online Lessons		4
COR 1007S	Architectural Drawings (Student Access)		16
COR 1100C	OSHA 10 - Construction/Introduction to Health and Safety*	16	10
COR 110C	American Heart Association (AHA) First Aid (CERTIFICATION)		8
COR 1103	Ergonomics in the Workplace*		4
COR 1102C	Respiratory Protection (CERTIFICATION)		4
COR 1105	Lead Abatement Worker (CERTIFICATION)		8
COR 1104	Hand and Power Tool Safety Awareness		6
COR 1200C	Communication Skills (CERTIFICATION)*		4
COR 1201	Foreman Training		2
LMCI 100	Project Management		4
COR 1202S	Supervisor Training Program (STP) (Student Access)		2
		32	96

Course List

The IUPAT/iFTI Program of Study for the Core Curriculum On-the-Job-Learning (OJL) and Related Instruction (RI) is outlined below. Under this hybrid approach an apprentice must participate in the indicated minimum number of hours of OJL for each category of the program. The Program Sponsor is responsible for determining the number of RI hours that an apprentice must participate in based on the FTI guidance, local needs, and the mandated minimum of 144 hours per year (29 CFR 29.5(b)(4)).

The tables provide the available courses in the Programs of Study and the FTI Learning Management System (LMS).

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
1.00	COR 0001-1099	Introduction to the Union and Finishing Trades	16	44
		Course Code and Course Name	Hours	Months Valid
		COR 0001 iFTI LMS Learner Orientation	1	N/A
		COR 0002 iFTI LMS Admin Orientation	1	N/A
		COR 0003 Blueprint Reading Fundamentals Level 1 (Instructor and Student Access)	4	N/A
		COR 0004		
		COR 0005		
		COR 0006 - COR 0999 Not yet assigned		
		COR 1000 History of IUPAT	8	N/A
		COR 1001 Sexual Harassment*	1	N/A
		COR 1002 Survival of the Fittest	20	N/A
		COR 1003 Green Building Awareness	4	36
		COR 1004 Basic Mathematics and Measurements	4	N/A
		COR 1005 Fractions-Decimals-Percents-Angles I	4	N/A
		COR 1006 Advanced Math	6	N/A
		COR 1007I Architectural Drawings (Instructor Access)	16	N/A
		COR 1007S Architectural Drawings (Student Access)	16	N/A
		COR 1008 Basic Computing	4	N/A
		COR 1009 Personal Finance*	2	N/A
		COR 1010 Introduction to Successful Investing*	2	N/A
		COR 1011 TEAM Training	4	N/A
		COR 1012 Apprentice Orientation*	4	N/A
		COR 1013 Estimating in the Finishing Trades	4	N/A
		COR 1014 STAR Credit	N/A	N/A
		COR 1015 US TAPP	?	N/A

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
1.00	COR 1000-1099	Introduction to the Union and Finishing Trades, continued	16	44
		Course Code and Course Name	Hours	Months Valid
		COR 1016C Construction Green Awareness Part 2 (CERTIFICATION)	?	Permanent
		COR 1017 Advanced Computing- No Online Lessons	5	N/A
		COR 1018 Basic MS Word*	1	N/A
		COR 1019 Basic MS Excel*	1	N/A
		COR 1020 Basic MS PowerPoint*	1	N/A
		COR 1021 Basic MS Outlook*	1	N/A
		COR 1022I Equal Employment Opportunity (EEO) and Anti Harassment Training in Registered Apprenticeship – Program Sponsor	2	N/A
		<i>COR 1022S Equal Employment Opportunity (EEO) and Anti Harassment Training in Registered Apprenticeship - Apprentices and Applicants</i>		
		COR 1023 Cyber Security*	7	N/A
		COR 1024 Cloud Computing: An Introduction*	1	N/A
		COR 1025 Mentorship Matters	8	N/A
		COR 1026 Multigenerational Workforce*	1	N/A
		COR 1027 Artificial Intelligence (AI)*	2	N/A
		COR 1028 Building Union Power	2	N/A
		COR 1029 Class Participation	8	N/A
		COR 1030 Credit Profiles and Scores	1	N/A
		COR 1031 Setting Savings Goals and Reducing Expenses	1	N/A
		COR 1032 Budgeting Basics and Automation	1	N/A
		COR 1033 Business Ethics*	.75	N/A
		COR 1034 Ethics and Compliance*	1	N/A
		COR 1035 Ethics for Employees*	.5	N/A
		COR 1036 Ethics for Managers*	.5	N/A
		COR 1037 Not Yet Assigned	N/A	N/A
		COR 1038 Accessibility Standards*	.5	N/A
		COR 1039 New Member Orientation	2	N/A
		COR 1040 DeWalt Tools	?	N/A
		COR 1041 IUPAT Respectful Workplace	8	N/A
		COR 1042 Day of Action Volunteer	8	N/A
		COR 1043 Organizing Volunteer	8	N/A
		COR 1044 CORE Volunteer	8	N/A

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
2.00	COR 1000-1099	Introduction to the Union and Finishing Trades, continued	16	44
		Course Code and Course Name	Hours	Months Valid
		COR 1045 Political Action Volunteer	8	N/A
		COR 1046 Basic Blueprint Reading	40	N/A
		COR 1047 Supervisor Harassment Prevention (US Federal)*	1.5	N/A
		COR 1048 Using Technology to Teach Online	4	N/A
		COR 1049 Presentations that Work in a Virtual Environment*	1.5	N/A
		COR 1050 Skills for Being Interviewed in a Virtual Environment*	1	N/A
		COR 1051 Hiring Right in a Virtual Environment*	1	N/A
		COR 1052-1099 Not Yet Assigned		

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
2.00	COR 110-199	Health and Safety	16	40
		Course Code and Course Name	Hours	Months Valid
		COR 100-109 Not Yet Assigned		
		COR 110C American Heart Association (AHA) First Aid	4	24
		COR 111C Confined Space Awareness (CERTIFICATION)	4	Permanent
		COR 112C Processed Safety Management (PSM) (CERTIFICATION)	8-10	12
		COR 113C Processed Safety Management (PSM) Refresher (CERTIFICATION)	8-10	12
		COR 114C 32-Hour New Jersey Lead Class (CERTIFICATION)	32	24
		COR 115C 8-Hour New Jersey Lead Refresher (CERTIFICATION)	8	24
		COR 116C American Red Cross First Aid/CPR/AED Refresher (CERTIFICATION)	4	24
		COR 117C Scaffold Safety Awareness - Suspended Scaffold User (CERTIFICATION)	4	Permanent
		COR 118C Scaffold Safety Awareness - Supported Scaffold User (CERTIFICATION)	4	Permanent
		COR 119C Respirator Refresher (CERTIFICATION)	4	12
		COR 120C Forklift (CERTIFICATION)	8	36
		COR 121C Retractable Loading Systems (CERTIFICATION)	3	Permanent

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
2.00	COR 110- 119	Health and Safety, continued	16	40
		Course Code and Course Name	Hours	Months Valid
		COR 122C Comprehensive Fall Protection Awareness (CERTIFICATION)	16	60
		COR 123C Disaster Site Worker (CERTIFICATION)	8	Permanent
		COR 124I Introduction to Behavioral Health (Instructor Access)	1	N/A
		COR 124S Introduction to Behavioral Health (Student Access)		
		COR 125C Lead Abatement Worker - Missouri (CERTIFICATION)	24	24
		COR 126C Lead Abatement Worker - Illinois (CERTIFICATION)	24	24
		COR 127C Lead Abatement Worker Refresher - Missouri (CERTIFICATION)	8	12
		COR 128C Lead Abatement Worker Refresher - Illinois (CERTIFICATION)	8	12
		COR 129C Forklift (CERTIFICATION)	4	36
		COR 130C United Academy Scissor Lift Operator (CERTIFICATION)	4	?
		COR 131C United Academy Aerial Boomlift Operator (CERTIFICATION)	4	?
		COR 132C United Academy Forklift and Rough Terrain Forklift Operator (CERTIFICATION)	3.5	?
		COR 133C United Academy Core 4 (CERTIFICATION)	32	36
		COR 134C OVERTON Mobile Elevated Work Platforms (MEWP) (CERTIFICATION)	32	36
		COR 135C Lead Abatement Worker (CERTIFICATION)	8	12
		COR 136C United Academy Aerial Boomlift and Scissor Lift Operator (CERTIFICATION)	4.5	36
		COR 137 Silica in Construction Training	6	N/A
		COR 138 Occupational Exposure to Silica	4	N/A
		COR 139 OVERTON Rigger Level I Test Prep	20	N/A
		COR 140C Lead Worker Initial (NATEC) (CERTIFICATION)	24	24
		COR 141C Respirable Crystalline Silica Awareness (CERTIFICATION)	4	Permanent
		COR 142 Laser Hazards*	.25	N/A
		COR 143 TB Vaccine (Placeholder)	1	N/A
		COR 144C OSHA 500	40	48
		COR 145C OSHA 502	24	48
		COR 146C OSHA 510	40	48
		COR 147C OVERTON Rigging (CERTIFICATION)	8	36
		COR 148C OVERTON Signaling (CERTIFICATION)	8	36

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
2.00	COR 110- 119	Health and Safety, continued	16	40
		Course Code and Course Name	Hours	Months Valid
		COR 149C USACE Fall Protection (CERTIFICATION)	24	36
		COR 150C Dunlop Mast Climber (CERTIFICATION)	8	60
		COR 151 Massachusetts 3A Hoisting License Preparation	4	N/A
		COR 152C Massachusetts 3A Continuing Education (CERTIFICATION)	4	12
		COR 153C NFPA Hot Work Safety (CERTIFICATION)	3	Permanent
		COR 154C Globally Harmonized System Hazard Communication (GHS Haz Com) (CERTIFICATION)	4	Permanent
		COR 155C OSHA 5400 Standards for the Maritime Industry	26	48
		COR 156C OSHA 5410 - Occupational Safety and Health Standards for the Maritime Industry	35	Permanent
		COR 157C Initial Erosion and Sediment Course (CERTIFICATION)	16	36
		COR 158 Changing the Culture of Construction	4	N/A
		COR 159C NCCCCO Rigger Level I Program (CERTIFICATION)	32	60
		COR 160C NCCCCO Mobile Crane (CERTIFICATION)	48	60
		COR 161C NCCCCO Signallerperson Refresher (CERTIFICATION)	8	48
		COR 162C Health Hazards in Construction (CERTIFICATION)	3	Permanent
		COR 163 Narcan	1	N/A
		COR 164 Opioids - Use and Misuse*	.75	N/A
		COR 165 Compressed Gas*	1	N/A
		COR 166 Not Yet Assigned	N/A	N/A
		COR 167C OSHA 7405 Fall Hazard Awareness (CERTIFICATION)	6	Permanent
		COR 168C OSHA 7505 Incident Investigation (CERTIFICATION)	8	Permanent
		COR 169 Mould Awareness* (Canada)	.5	N/A
		COR 170C Mental Health First Aid (CERTIFICATION)	8	36
		COR 171 Swing Stage	8	N/A
		COR 172C HSI Adult First Aid CPR and AED (Blended Training)	8	24
		COR 173 Not Yet Assigned	N/A	N/A
		COR 174C HSI Adult First Aid CPR and AED (Classroom Training)	8	24
		COR 175 Not Yet Assigned	N/A	N/A
		COR 176 Electrical Hazards*	.5	N/A
		COR 177 Lockout/Tagout*	.5	N/A
		COR 178 Heat Stress*	4	N/A
		COR 179 Hot Work Safe Practices*	.5	N/A
		COR 180 Temperature Extremes	4	N/A
		COR 181 Respiratory Protection	8	N/A
		COR 182C Transportation Worker Identification Credential (CERTIFICATION)	3	60

STD CAT #	COURSE ALPHA	CATEGORY NAME	OJL HRS	RI HRS
2.00	COR 1100-1199	Health and Safety, continued	16	40
		Course Code and Course Name	Hours	Months Valid
		COR 183 Firesproofing	16	N/A
		COR 184 Not Yet Assigned	N/A	N/A
		COR 185 HSI Active Shooter Response	7	N/A
		COR 186 Not Yet Assigned	N/A	N/A
		COR 192C Coronavirus/Covid-19 Vaccine	N/A	N/A
		COR 193C NCCCO Crane Signal Person (CERTIFICATION)	32	60
		COR 194 NCCCO Crane Signalperson Test Prep	4	N/A
		COR 195 Coronavirus Preparedness for Employers and Employees*	.5	N/A
		COR 196 Hand Safety and Injury Prevention*	.25	N/A
		COR 197 Handling Violence in the Workplace*	.83	N/A
		COR 198 Pandemic Resiliency	24	N/A
		COR 199 PCB Awareness	8	N/A
		COR 1100C OSHA 10 - Construction/ Introduction to Health and Safety *	10	Permanent
		COR 1101C First Aid/CPR/AED (CERTIFICATION)	8	24
		COR 1102C Respiratory Protection (CERTIFICATION)	4	12
		COR 1103 Ergonomics in the Workplace*	4	N/A
		COR 1104 Hand and Power Tool Safety Awareness	6	N/A
		COR 1105C Lead Abatement Worker (CERTIFICATION)	24	36
		COR 1106C Lead Supervisor (CERTIFICATION)	40	36
		COR 1107C EPA RRP (CERTIFICATION)	8	60
		COR 1108I Stair Ladder Safety (Instructor Access)	2	N/A
		COR 1108S Stair Ladder Safety (Student Access)	2	N/A
		COR 1109 Ladder Safety Training (ALI)*	4	N/A
		COR 1110C Master Firestopping (CERTIFICATION)	4	Permanent
		COR 1111C Confined Space (CERTIFICATION)	16	Permanent
		COR 1112 Electrical Safety*	8	N/A
		COR 1113C EPA Model Asbestos Worker (32-Hour) (CERTIFICATION)	32	12
		COR 1114 EPA Model Asbestos Abatement	16	N/A
		COR 1115I Forklift Safety Awareness (Instructor Access)	4	N/A
		COR 1115S Forklift Safety Awareness (Student Access)		
		COR 1116C Hazardous Communication (CERTIFICATION)	4	Permanent
		COR 1117I Hearing Conservation (Instructor Access)	4	N/A
		COR 1117S Hearing Conservation (Student Access)		
		COR 1118C Lockout /Tagout (CERTIFICATION)	4	Permanent

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
2.00	COR 1100- 1199	Health and Safety, continued		
		Course Code and Course Name	Hours	Months Valid
		COR 1119C Fall Protection (CERTIFICATION)	8	Permanent
		COR 1120I Scaffold Awareness/Safe Work Practices (Instructor Access) and COR 1120S Scaffold Awareness/Safe Work Practices (Student Access)	8	N/A
		COR 1121C Scaffold Erector and Dismantler (CERTIFICATION)	8	Permanent
		COR 1122C Scaffold Competent Person (CERTIFICATION)	32	Permanent
		COR 1123 Not Yet Assigned	N/A	N/A
		COR 1124 Solvents and Hazardous Materials	8	N/A
		COR 1125C Aerial Lifts (CERTIFICATION)	8	36
		COR 1126C OVERTON Rigging and Signaling (CERTIFICATION)	8	36
		COR 1127 OSHA Standard Awareness on Hexavalent Chromium	1	N/A
		COR 1128C SSPC Lead Paint Safety Worker (CERTIFICATION)	8	Permanent
		COR 1129C Infection Control Risk Assessment (ICRA) (CERTIFICATION)	8	Permanent
		COR 1130C OSHA 30*	30	Permanent
		COR 1131 Construction Safety Awareness	4	N/A
		COR 1132 Drug and Alcohol Addiction Awareness*	1	N/A
		COR 1133C Hazardous Waste Operations & Emergency Response (HAZWOPER) (CERTIFICATION)	40	12
		COR 1134C OSHA 10 - Construction/ Introduction to Health and Safety Refresher	10	Permanent
		COR 1135C Lead Abatement Worker Refresher (CERTIFICATION)	16	12
		COR 1136C Mine Safety (CERTIFICATION)	8	12
		COR 1137C Hazardous Waste Operations and Emergency Response (Hawwoper) Refresher (CERTIFICATION)	8	12
		COR 1138 Knot Tying	4	N/A
		COR 1139C Respirator Fit Test (CERTIFICATION)	2	12
		COR 1140C Lead Based Paint Abatement Structural Steel (WI) (CERTIFICATION)	8	36
		COR 1141C Lead Based Paint Abatement Washington DC (CERTIFICATION)	16	36
		COR 1142C Lead Based Paint Abatement Virginia (CERTIFICATION)	16	36
		COR 1143C Basic Traffic Control (CERTIFICATION)	4	Permanent
		COR 1144C Lead Based Paint Abatement Worker (W2) (CERTIFICATION)	8	36
		COR 1145 Lead and Asbestos Awareness*	.5	N/A
		COR 1146C OSHA 10 - Maritime	10	

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
2.00	COR 1100- 1199	Health and Safety, continued		
		Course Code and Course Name	Hours	Months Valid
		COR 1147 Health and Safety Special Topics 1	40	N/A
		COR 1148 Aerial Lifts Refresher	4	N/A
		COR 1149 0-8 Ton Mobile Crane Operator	8	N/A
		COR 1150C Haz Com/Fall Protection/Lead Refresher (CERTIFICATION)	8	12
		COR 1151 Aerial Lifts/Hoisting License Prep	10	N/A
		COR 1152 Rhode Island Forklift/Construction	10	N/A
		COR 1153C Lead Abatement Vermont (CERTIFICATION)	8	12
		COR 1154C OVERTON Rigging and Signaling Refresher (CERTIFICATION)	8	36
		COR 1155C Forklift Refresher (CERTIFICATION)	4	18
		COR 1156 Lead Awareness 1-hr	1	N/A
		COR 1157C Lift Awareness/Fall Protection/Lead Refresher (CERTIFICATION)	8	12
		COR 1158 Personal Protective Equipment*	1	N/A
		COR 1159 Back Safety*	1.5	N/A
		COR 1160 Conducting Workplace Inspections*	1.5	N/A
		COR 1161 Globally Harmonized System Overview / Safety Data Sheets	1	N/A
		COR 1162 Occupational Noise and Hearing Loss	4	N/A
		COR 1163 Safety in Fire Prevention*	.5	N/A
		COR 1164 Bloodborne Pathogens*	1	N/A
		COR 1165 Temporary Work Platforms - Safety Awareness	32	
		COR 1166C OSHA/Lead	?	Permanent
		COR 1167C EPA RRP Refresher (CERTIFICATION)	4	60
		COR 1168C SPIDER Staging (CERTIFICATION)	?	Permanent
		COR 1169C OSHA 10 - General Industry*	10	Permanent
		COR 1170C PRO 10 Plus (6-hr) (CERTIFICATION)	6	Permanent
		COR 1171C Mine Safety Refresher (CERTIFICATION)	8	12
		COR 1172C Lead Silica (CERTIFICATION)	32	Permanent
		COR 1173C Scaffold Awareness - Chicago Permitted (CERTIFICATION)	4	48
		COR 1174C Lead/Heavy Metals and Respirator Refresher (CERTIFICATION)	?	?
		COR 1175C Disaster Response - CPWR (CERTIFICATION)	4	?
		COR 1176C Lead Abatement Vermont (CERTIFICATION)	32	24
		COR 1177C Suspended Scaffold - New York (CERTIFICATION)	16	48

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
2.00	COR 1100- 1199	Health and Safety, continued		
		Course Code and Course Name	Hours	Months Valid
		COR 1178C Entertainment Technician Certification Program (ETCP) (CERTIFICATION)	?	60
		COR 1179C Massachusetts Aerial Lifts/Hoisting License (CERTIFICATION)	8	Permanent
		COR 1180C Massachusetts Class 1C Continuing Education (CERTIFICATION)	4	12
		COR 1181 Massachusetts Class 1C License Preparation	16	N/A
		COR 1182C Massachusetts Class 1B Continuing Education (CERTIFICATION)	4	12
		COR 1183 Massachusetts Class 1B License Preparation	16	N/A
		COR 1184C Pulmonary Function Test (PFT) (CERTIFICATION)	1	12
		COR 1185 Lead Awareness 4-hour	4	N/A
		COR 1186 Lead Refresher 4-hour	4	N/A
		COR 1187C Confined Space/Fall Protection/Lead Refresher (CERTIFICATION)	8	12
		COR 1188 Safety Trained Supervisor Construction Exam Prep*	4	N/A
		COR 1189C Safety Trained Supervisor Construction (STSC) (CERTIFICATION)	4	60
		COR 1190C Lead/Heavy Metals/Silica/Asbestos Awareness (CERTIFICATION)	8	12
		COR 1191C Respirator Refresher & SAP (CERTIFICATION)	4	12
		COR 1192C California OSHA 10-Hour Construction*	10	Permanent
		COR 1193C OSHA 10 Road Construction*	10	Permanent
		COR 1194C OVERTON AerScisForklift REFRESH (CERTIFICATION)	1	Permanent
		COR 1195C Industrial Construction Forklift (CERTIFICATION)	8	36
		COR 1196C Industrial Construction Forklift Refresher (CERTIFICATION)	4	36
		COR 1197 Fall Protection Awareness*	4	N/A
		COR 1198C EPA Model Asbestos Abatement Worker Refresher (8-Hour) (CERTIFICATION)	8	12
		COR 1199C EPA Model Asbestos Abatement Contractor/Supervisor (40-Hour) (CERTIFICATION)	40	12
		***Newer Health and Safety courses are added on page 14		

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
3.00	COR 1200- 1299	Leadership and Professional Development	32	96
		Course Code and Course Name	Hours	Months Valid
		COR 1200C Communications Skills (CERTIFICATION)*	4	Permanent
		COR 1201 Foreman Training	2	N/A
		COR 1202 Supervisor Training Program (STP)	20	N/A
		COR 1203C Project Management (CERTIFICATION)	20	Permanent
		COR 1204 Supervisor Training Program II	?	N/A
		COR 1205 Steward Training	4	N/A
		COR 1206 COMET I	4	N/A
		COR 1207 COMET II	4	N/A
		COR 1208 Effective Manager*	2.5	N/A
		COR 1209 Mentoring for Journeymen	4	N/A
		COR 1210 Lean Program (CERTIFICATION)	5	Permanent
		COR 1211C Foundation for Safety Leadership (CERTIFICATION)	4	Permanent
		COR 1212 Supervisor Training Program II Refresher	8	N/A
		COR 1213 Not Yet Assigned	N/A	N/A
		COR 1214 Goal Setting*	3.5	N/A
		COR 1215 Not Yet Assigned	N/A	N/A
		COR 1216 Time Management*	4	N/A
		COR 1217 Business Communications*	8	N/A
		COR 1218 Business Writing*	3	N/A
		COR 1219-1220 Not Yet Assigned	N/A	N/A
		COR 1221 Delegation*	2	N/A
		COR 1222C NABTU Trainer Enhancement (CERTIFICATION)	24	Permanent
		COR 1223 Clear Communication*	2.5	N/A
		COR 1224 Not Yet Assigned	N/A	N/A
		COR 1225 Communication & Leadership*	5	N/A
		COR 1226-1230 Not Yet Assigned	N/A	N/A
		COR 1231 Business Essentials*	1.5	N/A
		COR 1232 Coaching for Better Performance*	1	N/A
		COR 1233 Project Management: The Basics*	4	N/A
		COR 1234-1235 Not Yet Assigned	N/A	N/A
		COR 1236 Dealing with Conflict*	1.25	N/A
		COR 1237 Parenting Skills*	.5	N/A
		COR 1238 Leadership for Managers and Supervisors*	1	N/A
		COR 1239 Not Yet Assigned	N/A	N/A

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
3.00	COR 1200- 1299	Leadership and Professional Development, continued	32	96
		Course Code and Course Name	Hours	Months Valid
		COR 1240 Employee Motivation *	1	N/A
		COR 1241 Managing Your Career Path*	3	N/A
		COR 1242- 1243 Not Yet Assigned	N/A	N/A
		COR 1244 Role of the New Supervisor*	2	N/A
		COR 1245 Customer Service*	5	N/A
		COR 1246-1247 Not Yet Assigned	N/A	N/A
		COR 1248 Problem Solving*	2	N/A
		COR 1249 Healthy Workplace Culture*	2.5	N/A
		COR 1250 Mentoring for Apprentices	4	N/A
		COR 1251 Anger Management*	1	N/A
		COR 1252 Safe Driving*	2.6	N/A
		COR 1253C California Supervisor Harassment Prevention (AB1825) (CERTIFICATION)*	1	24
		COR 1254 California Employee Harassment Prevention (SB1343)*	1	N/A
		COR 1255 Connecticut Harassment Prevention*	2	N/A
		COR 1256 Union Meeting	2	N/A
		COR 1257 Office Safety*	.8	N/A
		COR 1258 Non Trade-specific Training	N/A	N/A
		COR 1259 Coping with Change*	1	N/A
		COR 1260 Managing Stress*	3.5	N/A
		COR 1261 Effective Leadership*	6	N/A
		COR 1262 Individual Priority Management*	.83	N/A
		COR 1263 Individual Productivity Enhancement*	.75	N/A
		COR 1264 Mind Your Mood*	1.5	N/A
		COR 1265 Change Management*	.75	N/A
		COR 1266 Mental Health Awareness	1.5	N/A
		COR 1267 Creativity and Innovation in the Workplace*	1.5	N/A
		COR 1268 Self Esteem*	.5	N/A
		COR 1269 Diversity in the Workplace*	1	N/A
		COR 1270 Unconscious Bias*	1	N/A
		COR 1271 Managing Anxiety During a Pandemic*	.5	N/A
		COR 1272 Returning to the Workplace During a Pandemic	.5	N/A

STD CAT #	COURSE ALPHA NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
3.00	COR 1200- 1299	Leadership and Professional Development, continued	32	96
		Course Code and Course Name	Hours	Months Valid
		COR 1273 Peer Support	20	N/A
		COR 1274-1299 Not Yet Assigned	N/A	N/A
		COR 5305 Procore Construction Project Management Tools	16	N/A

Core Course Competencies

The IUPAT/IFTI Program of Study for the Core Curriculum On-the-Job-Learning (OJL) and Related Instruction (RI) is outlined below. Under this hybrid approach an apprentice must participate in the indicated minimum number.

1.0 INTRODUCTION TO THE UNION AND FINISHING TRADES

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
1.01 HISTORY OF IUPAT (LABOR HISTORY)	<ul style="list-style-type: none"> This is a classroom-based module. There is no OJL assessment. 	<ul style="list-style-type: none"> Identify the historical reasons for unionization. Describe the strengths and weaknesses of the labor movement in the U.S. Describe the union structure and its activities. Explain how unions promote the trade and serve its members Understand the union's impact on economic issues, corporation, productivity, and distribution of wealth. Identify and explain the most significant labor laws of the 1900s. Analyze the impact the labor movement has had on social and political reform. Evaluate the IUPAT's role in the labor movement from 1887 to the Present.
1.02 SURVIVAL OF THE FITTEST (SOF)	<ul style="list-style-type: none"> Demonstrate the characteristics of a craft professional. Participate in union-related activities. 	<ul style="list-style-type: none"> Investigate the current state of the union's market share. Discuss the personal rewards and consequences associated with the union's market share. Describe successful strategies for unions to regain a market share in the construction industry. Identify and describe what the union provides on an ongoing basis to its members and affiliates. Identify the roles and responsibilities of the end users, contractors, union, and rank and file. Articulate the value that the union provides its members and affiliates. Describe the impact the IUPAT's Top Workplace Performance (TWP) program has on shaping attitudes and performance. Discuss the generational changes in rank and file attitudes and behaviors.
1.03 GREEN BUILDING AWARENESS	<ul style="list-style-type: none"> This is a classroom-based module. There is no OJL assessment. 	<ul style="list-style-type: none"> Describe sustainability and the social, environmental, and economic impact. Identify the benefits of sustainability. Explain the purpose of sustainability in commercial and residential buildings. Identify professional 'green' organizations. Identify elements of sustainability. Explain the importance of green practices. Define green bid specifications. Identify and interpret a green specification in a project manual.

1.0 INTRODUCTION TO THE UNION AND FINISHING TRADES, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
1.03 GREEN BUILDING AWARENESS, continued	<ul style="list-style-type: none"> This is a classroom-based module. There is no OJL assessment. 	<ul style="list-style-type: none"> Source and cost out green products. Create a bid incorporating green products and practices. Describe the elements involved with sustainable sites. Describe water efficiency practices. Determine energy and atmospheric requirements. Identify and describe effective materials and resources. Discuss indoor environmental quality standards. Discuss the 'green' innovation and design process. Identify and discuss the LEED-NC Process.
1.04 SEXUAL HARASSMENT	<ul style="list-style-type: none"> This is a classroom-based module. There is no OJL assessment. 	<ul style="list-style-type: none"> Define sexual harassment. Identify the law sexual harassment violates. Identify characteristics of quid pro quo sexual harassment. Identify characteristics of hostile environment sexual harassment. Cite factors that contribute to the determination of whether behavior is sexual harassment. Explain legal and other consequences of sexual harassment. Identify effects of sexual harassment. Identify costs associated with sexual harassment. Discuss employer liability in harassment cases. Identify United States' Supreme Court Landmark Cases.
1.05 MATH FOR CONSTRUCTION TRADES	<ul style="list-style-type: none"> This is a classroom-based module. There is no OJL assessment. 	<ul style="list-style-type: none"> Add, subtract, multiply, and divide whole numbers, with and without a calculator. Use a standard ruler, a metric ruler, and a measuring tape to measure. Add, subtract, multiply, and divide fractions. Add, subtract, multiply, and divide decimals, with and without a calculator. Convert decimals to percentages and percentages to decimals. Convert fractions to decimals and decimals to fractions. Explain what the metric system is and how it is important in the construction trade. Recognize and use metric units of length, weight, volume, and temperature. Recognize some of the basic shapes used in the construction industry and apply basic geometry to measure them.

1.0 INTRODUCTION TO THE UNION AND FINISHING TRADES, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
1.06 BASIC COMPUTING	<ul style="list-style-type: none"> This is a classroom-based module. There is no OJL assessment. 	<ul style="list-style-type: none"> Describe the components of a computer system. Define microcomputer hardware in terms of its functions: input, output, processing, and storage. Describe how peripheral devices are connected to a microcomputer. Identify types of software and their functions and describe the difference between system software and application software. Navigate and use the Windows XP environment to open and use applications, manage documents, and identify and maintain resources. Access and navigate the World Wide Web to find information. Create, format, and edit documents using Microsoft® Word. Create, revise, and enhance business presentations using Microsoft® PowerPoint. Create, revise, and enhance spreadsheets using Microsoft® Excel.
1.07 ARCHITECTURAL DRAWINGS/BLEUPRINT READING	<ul style="list-style-type: none"> Locate trade information using blueprints Answer basic construction questions related to the layout and installation of materials at the jobsite. 	<ul style="list-style-type: none"> Define blueprint and blueprint reading. Define plans and specifications. Describe how plans and specifications are prepared. Describe the purpose and importance of a set of plans. Identify and define various parts of a set of plans. Identify the various views of a drawing that are included in a set of plans and their relationship to each other. Identify and define material symbols, abbreviations, and lines used in drawings. Define the meaning of scale. Use fractional rule to calculate measurements. Explain how an architect's scale is used to measure lines. Use the architect's scale to determine the actual length of a scaled line. Recognize, locate, and determine missing dimensions. Describe proper handling procedures for plans and drawings.

2.0 HEALTH AND SAFETY

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
2.01 INTRODUCTION TO HEALTH AND SAFETY	<ul style="list-style-type: none"> Inspect PPE to determine if it is safe to use (PPE should include safety goggles, hard hat, gloves, safety harness, and safety shoes). Properly don and doff PPE (safety goggles, hard hat, and personal fall protection). Demonstrate safe lifting procedures. Set up an extension ladder properly. Demonstrate three-point contact on a ladder. 	<ul style="list-style-type: none"> Explain the idea of a safety culture and its importance in the construction crafts. Identify causes of accidents and the impact of accident costs. Explain the role of OSHA in job-site safety. Locate OSHA Standards references applicable to specific hazardous conditions and practices. Recognize the aspects of 1926 Subpart C (General Safety and Health Provisions). State the purpose of the OSHA Act and list the functions of OSHA. List the OSHA inspection priorities and describe the inspection process. Describe the rights and responsibilities of employers and employees under the OSHA Act. Recognize hazard recognition and risk assessment techniques. Explain fall protection, ladder, stair, and scaffold procedures and requirements. Identify struck-by hazards and demonstrate safe working procedures and requirements. Identify caught-in-between hazards and demonstrate safe working procedures and requirements. Define safe work procedures to use around electrical hazards. Demonstrate the use and care of appropriate personal protective equipment (PPE). Explain the importance of hazard communications (Haz Com) and Material Safety Data Sheets (MSDSs). Identify other construction hazards on your job site, including hazardous material exposures, environmental elements, welding and cutting hazards, confined spaces, and fires.
2.02 FIRST AID/CPR/AED	<ul style="list-style-type: none"> This is a classroom-based module. There is no OJL assessment. 	<ul style="list-style-type: none"> Demonstrate how to minimize the risk of disease transmission when giving care. Demonstrate how to check an unconscious person for life-threatening and non-life threatening conditions. Demonstrate how to give cardiopulmonary resuscitation (CPR) to a person. Demonstrate how to care for a person who is not breathing and/or choking. Describe when and how to use an AED.

2.0 HEALTH AND SAFETY, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
2.03 ERGONOMICS	<ul style="list-style-type: none"> • This is a classroom-based module, • There is no OJL assessment. 	<ul style="list-style-type: none"> • Describe ergonomics and its importance in the workplace. • Describe the benefits of implementing an ergonomic program. • Identify and describe ergonomic related injuries and related musculoskeletal disorders that can occur in an office setting. • Identify and describe ergonomic related injuries and related musculoskeletal disorders that can occur in a construction workplace. • Recognize and describe risk factors that can cause musculoskeletal disorders or related injuries. • Describe healthy ergonomics in an office setting. • Describe healthy ergonomics in a construction workplace. • Demonstrate proper stretching techniques. • Identify employee and employer rights and responsibilities.
2.04 RESPIRATORY PROTECTION	<ul style="list-style-type: none"> • This is a classroom-based module, • There is no OJL assessment. 	<ul style="list-style-type: none"> • Describe how the respiratory system works. • Identify the different types of respirators and their purposes. • Demonstrate the proper fit, inspection, cleaning, disinfection, and storage of respirators. • Summarize how the human respiratory system works. • Identify respiratory hazards and describe how they affect the respiratory system. • Identify work activities that can create airborne hazards. • Demonstrate how to perform proper negative and positive fit-checks. • Demonstrate proper inspection of respirators. • Demonstrate safe cleaning, disinfection, and storage procedures for respirators.

2.0 HEALTH AND SAFETY, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
2.05 LEAD ABATEMENT (WORKER)	<ul style="list-style-type: none"> • This is a classroom-based module, • There is no OJL assessment. 	<ul style="list-style-type: none"> • Explain his/her roles and responsibilities as a Lead Abatement worker. • Recall and describe basic facts in the history of lead and lead abatement. • Identify and describe the health effects of lead exposure and protection against lead exposure and poisoning. • Describe and demonstrate safe work practices when working with or around lead. • Describe general work safety and health hazards. • Identify and describe the federal, state and local regulations for lead workers. • Explain and demonstrate the pre-abatement set-up and containment procedures for residential buildings. • Recognize and describe residential lead-based paint hazards and control factors. • Describe and explain interior dust abatement procedures, clean-up and final clearance inspections. • Describe and explain the procedures for soil and exterior dust abatement with waste disposal. • Explain and demonstrate the pre-abatement set-up and containment procedures for industrial buildings. • Recognize and describe industrial lead-based paint hazards and control factors. • Describe and demonstrate lead safe work practices in compliance with the EPA Renovation, Repair, and Painting (RRP) Rule, and HUD's Lead Safe Housing Rule.
2.06 HAND & POWER TOOL SAFETY AWARENESS	<ul style="list-style-type: none"> • This is a classroom-based module, • There is no OJL assessment. 	<ul style="list-style-type: none"> • Recognize and identify some of the basic hand tools and their proper uses in the construction trade. • Visually inspect hand tools to determine if they are safe to use. • Safely use hand tools. • Identify power tools commonly used in the construction trades. • Demonstrate and describe all general safety rules for power tools and follow them. • Explain the importance of using guards during the operation of power tools. • Explain the importance of using a properly rated extension cord. • Demonstrate and describe how to properly <i>ground</i> a power tool. • Explain how to maintain power tools properly.

3.0 LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
3.01 COMMUNICATION SKILLS	<ul style="list-style-type: none"> This is a classroom-based module, There is no OJL assessment. 	<ul style="list-style-type: none"> Interpret information and instructions presented in both verbal and written form. Communicate effectively in on-the-job situations using verbal and written skills. Communicate effectively on the job using electronic communication devices.
3.02 FOREMAN TRAINING	<ul style="list-style-type: none"> This is a classroom-based module, There is no OJL assessment. 	<ul style="list-style-type: none"> Describe the role of the foreman. State the key role of the foreman in maintaining safety rules and regulations. Describe how to establish and maintain good relationships with co-workers, supervisors and other trades. Describe productive motivational techniques. Explain the importance of properly performing personnel functions in accordance with the union agreement and company policies. Explain the importance of developing and using effective communications skills. Describe the proper planning and organizational skills needed to successfully complete a job. Describe the “leadership” qualities needed to be an effective foreman.
3.03 PROJECT MANAGEMENT	<ul style="list-style-type: none"> This is a classroom-based module, There is no OJL assessment. 	<ul style="list-style-type: none"> Achieve predicted and desired results in the execution of projects through implementation of consistent methodologies. Advance the skill level and knowledge of IUPAT Project Managers. Emphasize the depth and breadth of roles and responsibilities that a Project Manager may be relied upon to manage, to contribute to, or to perform.
3.04 SUPERVISOR TRAINING PROGRAM (STP)	<ul style="list-style-type: none"> This is a classroom-based module, There is no OJL assessment. 	<ul style="list-style-type: none"> Define the role of the supervisor. Define the scope and importance of verbal communication. Refine written communication skills. Describe various job site personnel issues. Identify the supervisor’s role in safety. Manage and estimate the cost of tools and materials. Describe the importance of leadership in effective supervision.



Core Course **Description**

Introduction to the Union and Finishing Trades

COURSE

DESCRIPTION

COR 0001 FTI LMS Learner's Orientation

Hour/s: 1

This is an orientation that walks learners through the features, benefits, and functionality of the FTI Learning Management System, which can be found at iftlms.org.

COR 1000 History of IUPAT

Hour/s: 8

This course is a comprehensive course covering the history of Unions through the current economic, social and political environment that a laborer enters into today. All members of the trades who participate in this course will learn the reasons for unionization, how unions promote the trade and serve the members, and their union's structure and activities. Many of the lessons incorporate role-plays, discussions and interviewing and investigation tasks that will help the Students to not only learn the subject matter but also be able to develop speaking, writing, thinking and problem-solving skills useful on the job. Additionally, special emphasis will be placed on the history of the IUPAT from its inception in 1887 to the present.

COR 1001 Sexual Harassment*

Hour/s: 1

Sexual harassment and other forms of illegal discrimination are damaging to organizations, employees and society at large. This training will give employees a greater understanding of harassment and illegal discrimination, how they can be prevented, and the processes to follow when a complaint is made.

With California (COR 1254 California Employee Harassment Prevention (SB1343)) and New York versions (C09 1001 New York Harassment Prevention)*

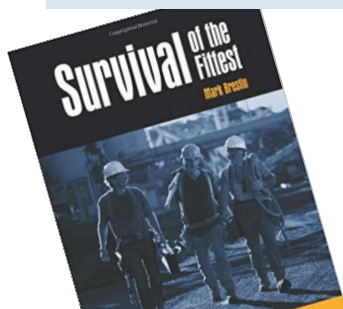
With Spanish version in the LMS (SPN 1001 Empleados (US Federal) - Prevencion del acoso para los empleados and SPN 1002 Prevenir el acoso y la discriminacion ilegal en Nueva York*)*

With French version in the LMS (FRE 1001 Le Harcelement la Discrimination et la Violence au Travail)*

COR 1002 Survival of the Fittest

Hour/s: 20

This course is designed to provide apprentices and journey workers with vital skills, attitudes and behavior necessary to compete in today's industry. This highly interactive course aims to provoke and stimulate training. Student discussions will focus on subjects such as market share, absenteeism, harassment, integrity, competition, supervision, and money management.



COURSE

DESCRIPTION

COR 1003 Introduction to Green Building

Hour/s: 4

One of the most popular and potentially influential socio-economic issues currently under discussion is that of Sustainability, which includes energy efficiency, high performance and "green" building. This course will present the basics including definitions, benefits, and elements of Sustainability and will focus on related theories, practices, methods, and materials in construction, conscientious maintenance and awareness in lifestyle to ensure the quality and sustainability of our planet (GA Certified Associate - Certification Period: 36 months). Resource - <http://www.greenadvantage.org/get-certified#certifications>

COR 1004 Basic Math and Measurements

Hour/s: 4

Lesson 1 covers basic Math operations, skills involving square numbers, and square roots. The lesson also explains and solves equations using the order of operation. Lesson 2 explains the systems of measurement: US Customary and Metric, combines and converts denominate numbers, and uses calculators when converting and combining units of measurements.

COR 1005 Fractions- Decimals-Percents- Angles I

Hour/s: 4

Lesson 1 identifies the different types of fractions, reduces or simplifies a fraction to its smallest form, and performs basic operations with fractions. Lesson 2 performs basic operations with decimals, converts percentages to decimals and vice versa, describes basic geometry, explains the Pythagorean theorem, and finds areas, perimeters, and circumferences.

COR 1006 Advanced Math - No Online Lessons

Hour/s: 6

Lesson 1 is designed to familiarize participants with basic mathematical applications that can be used on the job. After completing this lesson, users should be able to interpret measurements that include fractions and decimal values, measurements in English and metric units, and perform mathematical applications involving fractions and decimals. They should also be able to calculate dimensions associated with rectangles, triangles, and circles.

Lesson 2 is a review of the basic laws of algebra and how to solve different types of algebraic equations. This lesson also includes discussions on the use of logarithms, data systems for graphing, equations for slope, and interpolation and extrapolation of data that will be useful to working professionals.

COURSE**DESCRIPTION****COR 1007I
Architectural Drawings
(Instructor Access)**

Hour/s: 16

Upon successful completion of this course, the student will be able to locate and identify engineered specifications within a set of plans; locate and identify engineered scaled and un-scaled drawings; order and manage construction materials from a set of plans; increase creditability and communication between the job foreman and job-site engineers; identify National Building Codes pertaining to their trade. Available to students through partnerships with Department of Labor approved apprenticeship programs.

*With Spanish Version - SPN 1007 Planos Arquitectonicos****COR 1007S
Architectural Drawings
(Student Access)****COR 1008 Basic
Computing - No Online
Lessons**

Hour/s: 4

This is a basic course in the use of computers. It will also introduce the student to MS Office software and fundamental use of the Internet.

NOTE: No Online Lessons

**COR 1009 Personal
Finance***

Hour/s: 2

Personal Financial Awareness is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets; Simulate use of checking and saving accounts; Demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions.

**COR 1010
Introduction to
Successful Investing***

Hour/s: 2

This Investing 101 online training course is designed for banking employees and anyone seeking information about the basics of investments. This course explores the basics of stocks and the stock market, as well as some techniques for researching and analyzing stock. It also explores practical steps you can take to build your own portfolio.

**COR 1011 TEAM
Training**

Hour/s: 4

This course will assist the participant in understanding their role within the Union Organization. Participants will develop an awareness of the need for everyone to work together as an organization and the importance of developing and working a strategy for our future in organized labor.

COURSE**DESCRIPTION****COR 1012 Apprentice Orientation***

Hour/s: 4

What the Finishing Trades Institute will expect from an Apprentice. This class will review advancement criteria and our expectations of an apprentice. All necessary form will be updated and the importance of keeping the program informed will be stressed. The 3 Strike Policy regarding class related study attendance will be reviewed as well as the employer evaluation criteria.

The course for new members will discuss contracts, bylaws, continuing education rules and regulations; what to expect as you begin in the trades; understanding the culture and benefits as well as the dues structure.

Vubiz Online Course (1 hour) - Young Worker Safety Orientation - Injuries sustained at work can have life-long implications. Every week 5 young workers are permanently disabled as a result of a work-place injury. Most often these injuries are sustained in the first 6 months of starting a new job. This e-learning module provides safety 'must do's' for all young workers. It also provides supervisory staff with their responsibilities. It is essential that this module is reviewed prior to the start of work for each and every young worker under the age of 24.

With French version in the LMS (FRE 1012 Initiation a la securite a l intention des jeunes travailleurs)*

COR 1013 Estimating in the Finishing Trades

Hour/s: 4

Projects can be defined by inputs, processes, and outputs. The logical progression is to begin with the end in mind, determine what the outputs should be, figure out how to design those processes, and thereby determine what the input should be. In this course, the output that will be covered is an estimate.

COR 1014 STAR Credit

Hour/s: N/A

Credit given to the member for failing or not completing a course.

COR 1016C Construction Green Awareness Part 2 (CERTIFICATION)

Hour/s: ?

This Green Trades Training course will take a comprehensive look at Green Construction Activities and Pollution Prevention. All pollution prevention measures required for the green projects will be identified and discussed in detail. Topics for discussing will include Commissioning, Indoor Air Quality and Waste Management (Certification Period: Permanent).

Member Card Abbreviation: Construction Green Awareness 2

COURSE

DESCRIPTION

COR 1017 Advanced Computing - No Online Lessons

Hour/s: 5

In the Smart Office 2010 Essential Training series, you learned the core features and tools in MS Word, Excel, PowerPoint, and Outlook. This second course in the series discusses the advanced features of MS Office.

NOTE: No Online Lessons

COR 1018 Basic MS Word*

Hour/s: 1

This eLearning course will demonstrate how to edit, format, and save documents, as well as how to use tools such as templates, tables, and graphics. Upon completing this course, learners will know how to create professional-looking documents quickly and easily.

Word for Windows Training - https://support.microsoft.com/en-us/office/word-for-windows-training-7bcd85e6-2c3d-4c3c-a2a5-5ed8847eae73?wt.mc_id=otc_home

COR 1019 Basic MS Excel*

Hour/s: 1

This eLearning course covers the basics on Excel worksheets and will provide learners with a solid foundation in creating, editing, and formatting spreadsheets, using formulas and functions to perform calculations, and analyzing data through charts and graphs.

Upon completing this course, learners will have gained essential skills in Excel.

Excel Video Training - https://support.microsoft.com/en-us/office/excel-video-training-9bc05390-e94c-46af-a5b3-d7c22f6990bb?wt.mc_id=otc_home

COR 1020 Basic MS PowerPoint*

Hour/s: 1

This eLearning course is designed to introduce the fundamental features of PowerPoint, such as creating, formatting, and editing slides, inserting text, images, and multimedia, and adding animations and transitions. This course will also demonstrate how to use PowerPoint templates to create professional-looking presentations quickly and how to save and share presentations.

Upon completing this course, learners will have a solid understanding of the basics of PowerPoint, enabling them to create engaging and informative presentations.

Powerpoint for Windows Training - <https://support.microsoft.com/en-us/office/powerpoint-for-windows-training-40e8c930-cb0b-40d8-82c4-bd53d3398787>

COURSE	DESCRIPTION
COR 1021 Basic MS Outlook*	<p>Hour/s: 1</p> <p>This eLearning course is designed for users who want to learn how to efficiently manage their email, calendar, and contacts using Outlook. The course will provide learners with a solid foundation in composing and sending emails, organizing, and managing their inbox, creating appointments and events, managing contacts, and customizing the interface to fit their needs. Upon completing this course, learners will understand how to use Outlook to stay organized and productive.</p> <p>Outlook Training - https://support.microsoft.com/en-us/office/outlook-training-8a5b816d-9052-4190-a5eb-494512343cca?wt.mc_id=otc_home</p>
COR 1022I Equal Employment Opportunity (EEO) and Anti Harassment Training in Registered Apprenticeship – Program Sponsor	<p>Hour/s: 2</p> <p>EEO meaning Equal Employment Opportunity is the principle that every person, regardless of attributes such as race, gender or sexual orientation, has an equal opportunity to find employment based on merit or while in the workplace. This course will educate participants about the Equal Employment Opportunity Regulations in Registered Apprenticeship Programs.</p> <p>The U.S. Equal Employment Opportunity Commission (EEOC) is responsible for enforcing federal laws that make it illegal to discriminate against a job applicant or an employee because of race, color, religion, sex (including pregnancy, gender identity, and sexual orientation), national origin, age (40 or older), disability or genetic information.</p> <p>There is an apprentice/applicant version - <i>COR 1022S Equal Employment Opportunity (EEO) and Anti Harassment Training in Registered Apprenticeship - Apprentices and Applicants</i></p>
COR 1023 Cyber Security*	<p>Hour/s: 7</p> <p>Organizations are increasingly concerned about the security of electronic information. This course identifies the safeguards needed to ensure the confidentiality, integrity and security of the information that employees work with. Correctly applied, these safeguards will help protect the people, information, technology and facilities that the organization depends on. The course will introduce key concepts and terms, identify security threats, and outline best practices for information protection.</p>
COR 1024 Cloud Computing: An Introduction*	<p>Hour/s: 1</p> <p>The module "Cloud Computing: An Introduction" introduces learners to the exciting world of cloud computing. The learner will explore how cloud computing evolved, learn how businesses can benefit from cloud computing, and understand the risks involved in cloud computing. Topics covered in this module include: basic computing attributes; cloud computing defined; the characteristics of cloud computing; the cloud computing service delivery models; cloud implementation models; the financial, technological, and operational benefits of cloud computing; and the risks of cloud computing along with the mitigation of those risks.</p>

COURSE

DESCRIPTION

COR 1025 Mentorship Matters

Hour/s: 8

Within the trades, mentorship is emerging as one of the most critical elements in workforce development. This two-day Mentorship Matters™ Train-the-Trainer program is divided into two separate workshops – Six Steps to Mentoring (4hrs) and Six Skills for Apprentices (4hrs) and will provide the tools to effectively deliver this program. The goal of these training sessions is to maximize effectiveness of communication and skill transfer between the new worker, and the mentor.

COR 1026 Multigenerational Workforce*

Hour/s: 1

This Multigenerational Workforce online training course was designed for employees and managers in the workplace. This course explores generations in the workplace, how generations connect, practical strategies to promote generational leadership, how to build community across generations in the workplace, generational differences, similarities, and how to leverage differences as strengths.

COR 1027 Artificial Intelligence (AI)*

Hour/s: 2

The course contains 4 lessons which covers the overview of basic tools, introduction to generative AI, best practices for creating prompts, and information security.

COR 1028 Building Union Power

Hour/s: 2

Centered around IUPAT's value statement "One Union, One Family, One Fight," the course emphasizes the importance of commitment, mutual support, and solidarity in driving meaningful change within the union. This training module is designed to empower our members by helping them understand and embrace our core values. Participants will gain insight into their personal role in strengthening union power, understand the value of working together toward common goals, and leave with a deeper sense of how individual actions contribute to the union's success.

COR 1029 Class Participation

Hour/s: 8

Students are given daily points for positive or negative participation.

COR 1030 Credit Profiles and Scores

Hour/s: 1

The course teaches participants the importance of good credit, how to build credit and its effect on their ability to make financial decisions. It reviews the components that go into creating a credit score and how credit changes over time. It provides an overview of how managing credit and creating a good credit history can provide opportunities and avoid the traditional pitfalls of young consumers.

COURSE	DESCRIPTION
COR 1031 Setting Savings Goals and Reducing Expenses	<p>Hour/s: 1</p> <p>The course teaches participants how to save for goals from emergency funds, short-term, and long-term. It discusses goals for creating an emergency fund and when to use those funds. Shows how money can grow over the long term to create wealth. Reviews the process of buying a house and a car, and how to plan effectively. Provides tips and tricks to reduce regular expenses to help save money throughout the year.</p>
COR 1032 Budgeting Basics and Automation	<p>Hour/s: 1</p> <p>Teaches the basics of budgeting including the components of a budget, types of expenses to consider when budgeting, and how to make a sustainable budget. Students will use the budgeting tool available to them through the IUPAT Financial Education Website to create their first draft of a budget.</p>
COR 1033 Business Ethics*	<p>Hour/s: .75</p> <p>This Business Ethics online training course focuses on the importance of recognizing an ethical dilemma and how to act accordingly. This course helps you understand what business ethics are, the difference between compliance and ethics, the importance of recognizing an ethical dilemma and then acting accordingly, and how to recognize the importance of doing business ethically.</p>
COR 1034 Ethics and Compliance*	<p>Hour/s: 1</p> <p>The Ethics and Compliance Basics [US] online training course is designed for all employees in all industries. This course explores legal and ethical issues as they arise in the workplace and is intended to help employees recognize those issues and respond appropriately to those issues and perform their jobs with integrity.</p>
COR 1035 Ethics for Employees*	<p>Hour/s: .5</p> <p>A business without ethics is a business at risk. Companies face multi-million dollar fines, criminal prosecutions and possible bankruptcy for wrongdoing, and usually behind the headlines is the story of someone who made the wrong decision, didn't report suspected wrongdoing, or failed to recognize an ethical dilemma. Employees are often expected to make decisions, sometimes acting alone or out in the field, with very few resources to help.</p>

COURSE**DESCRIPTION****COR 1036 Ethics for Managers***

Hour/s: .5

In business ethics, there is rarely a correct answer, and the process of decision-making is often as important as the conclusion. Managers need to know how ethical business practices can prevent wrongdoing in their organizations and how ethics can help employees make good choices. This course explains what business ethics means and why initiatives to develop and maintain ethical cultures in organizations are more important than ever.

COR 1037 Not Yet Assigned

Hour/s: XX

COR 1038 Accessibility Standards*

Hour/s: 3

The Accessibility Standards Training aims to identify, remove, and prevent barriers for people with disabilities. The Accessibility Standards Training provides general requirements in the areas of customer service, information and communication, employment, transportation and built environment regarding disabilities.

*NOTE: With French version - FRE 1038 Normes d'Accessibilité**

COR 1039 New Member Orientation

Hour/s: 1

Under Sec 84 (e) of the IUPAT Constitution, all District Councils shall establish a new member orientation program. All new members must attend a new member orientation class offered by the District Council. Such class should be offered periodically by the District Council and should include, but not be limited to presentation of the health insurance summary plan description, pension summary plan description, bylaws, collective bargaining agreements, membership education, and information on union meetings and officers.

COR 1040 DeWalt Tools

Hour/s: ?

In partnership with DeWalt Tools, students will be exposed to a variety of tools, materials and process-oriented course materials. DeWalt is a worldwide brand of power tools and hand tools for the construction, manufacturing and woodworking industries. It is a subsidiary of Stanley Black & Decker and headquartered in Baltimore, MD <http://www.dewalt.com/>

COURSE	DESCRIPTION
COR 1041 IUPAT Respectful Workplace	<p>Hour/s: 8</p> <p>The IUPAT Respectful Workplace Train-the-Trainer Program is designed to support the IUPAT and its affiliated apprenticeship programs as we seek to eliminate harassment, discrimination, hazing, bullying, and other inappropriate behavior from our work environment. The training emphasizes safety and productivity issues associated with negative workplace behaviors. The program also promotes inclusion and equity best practices to increase the recruitment and retention of our diverse workforce. Following this course, you will be able to deliver the 60-minute IUPAT Respectful Workplace Training program. Enrollment is limited to 15. The training includes 8 hours of instruction delivered over two consecutive days.</p>
COR 1042 Day of Action Volunteer	<p>Hour/s: 8</p> <p>Tracking Day of Action Volunteers</p>
COR 1043 Organizing Volunteer	<p>Hour/s: 8</p> <p>Organizing Volunteer Tracking</p>
COR 1044 CORE Volunteer	<p>Hour/s: 8</p> <p>Community Organizing for Real Economics Tracking.</p>
COR 1045 Political Action Volunteer	<p>Hour/s: 8</p> <p>Tracking of Members Political Action Volunteering involvement.</p>
COR 1046 Basic Blueprint Reading	<p>Hour/s: 40</p> <p>Basic Blueprint Reading provides students with flexible courseware and instruction that enables them to understand the various types of blueprints, used in a painters' environment. Learning to read blueprints, apprentices discover how to comprehend, and interpret the different types of standard symbols and abbreviations.</p> <p>They'll learn to:</p> <ul style="list-style-type: none"> • Define different types of scales used on drawings. • Identify the height, width, and length dimensions of a drawing. • Interpret the various symbols and notations used on drawings. • Draw multi-view sketches of simple objects that accurately show all the details of the objects.

COURSE**DESCRIPTION**

COR 1047 Supervisor Harassment Prevention (US Federal)*	<p>Hour/s: 1.5</p> <p>Harassment and illegal discrimination are damaging to organizations, employees and society at large. This training will give employers and supervisors a greater understanding of harassment and illegal discrimination, how they can be prevented, and processes to follow when a complaint is made.</p> <p><i>With Spanish version in the LMS (SPN 1047 Supervisores (US Federal) - Prevencion del acoso para los supervisores*)</i></p>
COR 1048 Using Technology to Teach Online	<p>Hour/s: 4</p> <p>This course contains content and materials garnered from three one-hour Zoom-based online workshops that serve as a best practices for iFTI instructors learning how to lead and teach in a instructor-led virtual environment. The basic principles of this course and its materials are applicable to various virtual communication platforms used in combination with the iFTI Learning Management System.</p>
COR 1049 Presentations that Work in a Virtual Environment*	<p>Hour/s: 1.5</p> <p>This online training course includes tools and techniques to help you determine what the virtual audience wants and needs, methods to gauge their needs, and a structure for organizing and formatting a good presentation. You will learn that for virtual presentations, the preparation is actually similar to traditional live presentations.</p>
COR 1050 Skills for Being Interviewed in a Virtual Environment*	<p>Hour/s: 1</p> <p>This Skills for Being Interviewed in a Virtual Environment online training course explores basic interview concepts and presents strategies and tips to prepare for behavioral interview questions. This course will help you recognize the importance of preparation for an online job interview and identify questions to ask during an interview.</p>
COR 1051 Hiring Right in a Virtual Environment*	<p>Hour/s: 1</p> <p>This Hiring Right in a Virtual Environment online training course will give you an understanding of the virtual interview and selection process and provide you with practical tips for managing the steps in the process, including the key skills you need to conduct an efficient and effective interview.</p>

COR 1052-1099 Not Yet Assigned

COURSE	DESCRIPTION
COR 110C American Heart Association (AHA) First Aid	<p>Hour/s: 4</p> <p>100% classroom training means students are with an AHA Instructor for their entire learning experience. Heartsaver First Aid is a video-based, instructor-led course that teaches students critical skills to respond to and manage an emergency in the first few minutes until emergency medical services arrives. Students learn duties and responsibilities of first aid rescuers; first aid actions for medical emergencies, including severe choking, heart attack, and stroke; and skills for handling injury and environmental emergencies, including external bleeding, broken bones and sprains, and bites and stings. This course is for anyone with limited or no medical training who needs a course completion card in first aid to meet job, regulatory, or other requirements (Certification Period: 24 months).</p>
COR 111C Confined Space Awareness (CERTIFICATION)	<p>Hour/s: 4</p> <p>This is a 4-hour awareness course only. About 1.6 million workers enter 4.6 million confined spaces every year. OSHA estimates that 63 deaths and more than 12,800 injuries occur every year in work places affected by its permit-required confined spaces standard. In this course, students will be introduced to Confined Spaces and the safety and health hazards associated with working with confined space entry (Certification Period: Permanent).</p>
COR 112C Processed Safety Management (PSM) (CERTIFICATION)	<p>Hour/s: 8-10</p> <p>Process Safety Management (PSM) Refresher is an abridged version of the 8-10 Hour class. The PSM Standard is intended to prevent or minimize the consequences of a catastrophic release of toxin, reactive, flammable or explosive chemicals from a process. This class is a requirement to work in regional petrochemical plants. PSM Refresher class certification is valid for 1 year (Certification Period: 12 months).</p> <p>Member Card Abbreviation: Processed Safety Management</p>
COR 113C Processed Safety Management (PSM) Refresher (CERTIFICATION)	<p>Hour/s: 8-10</p> <p>Process Safety Management (PSM) Refresher is an abridged version of the 8-10 Hour class. The PSM Standard is intended to prevent or minimize the consequences of a catastrophic release of toxin, reactive, flammable or explosive chemicals from a process. This class is a requirement to work in regional petrochemical plants. PSM Refresher class certification is valid for 1 year (Certification Period: 12 months).</p> <p>Member Card Abbreviation: Processed Safety Managemt Ref</p>



COURSE

DESCRIPTION

COR 114C 32-Hour New Jersey Lead Class (CERTIFICATION)

Hour/s: 32

32-hour Lead is a comprehensive class comprised of information located in the Code of Federal Regulations 1926.62 (Lead). Topics discussed and covered are wide ranging: Health effects of lead exposure, personal protective equipment, local, state, and federal requirements, engineering controls, respiratory protection, fall protection, medical surveillance, exposure monitoring, hygiene facilities and practices. This is a requirement of the New Jersey Department of Health and Senior Services to perform tasks related to lead abatement work (Certification Period: 24 months).

COR 115C 8-Hour New Jersey Lead Refresher (CERTIFICATION)

Hour/s: 8

New Jersey Lead Refresher is an abridged version of the 32-hour class. Pertinent lead regulations are reviewed, discussed and analyzed (Certification Period: 24 months).

Member Card Abbreviation: 8-Hour New Jersey Lead Refr

COR 116C American Red Cross First Aid/CPR/AED Refresher (CERTIFICATION)

Hour/s: 4

This American Red Cross refresher course will help you maintain the valuable knowledge and skills you learned in the areas of emergency response, automated external defibrillation, and cardiovascular pulmonary resuscitation, as well as emergency response, automated external defibrillation, and cardiovascular pulmonary resuscitation (Certification Period: 24 months).

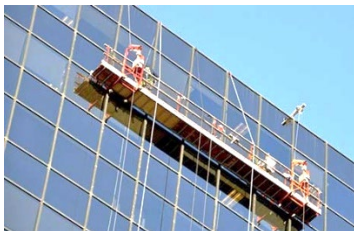
Member Card Abbreviation: First Aid/CPR/AED Refresher

COR 117C Scaffold Safety Awareness - Suspended Scaffold User (CERTIFICATION)

Hour/s: 4

This is a Scaffold Safety Awareness course that covers regulations specific to Suspended Scaffold Users in accordance with OSHA 1926.454. The training enables the student to be aware and able to recognize the hazards associated with the type of suspended scaffold being used and how to control and minimize hazards (Certification Period: Permanent).

Member Card Abbreviation: Scaffold Safety Aware – Suspended



COURSE

DESCRIPTION

COR 118C Scaffold Safety Awareness - Supported Scaffold User (CERTIFICATION)

Hour/s: 4

This is a Scaffold Safety Awareness course that covers regulations specific to Supported Scaffold Users in accordance with OSHA 1926.454. The training enables the student to be aware and able to recognize the hazards associated with the type of supported scaffold being used and how to control and minimize hazards (Certification Period: Permanent).

Member Card Abbreviation: Scaffold Safety Awareness

COR 119C Respirator Refresher (CERTIFICATION)

Hour/s: 4

This meets with OSHA minimum requirements under the Respirator Standard 29CFR 1910.134. This course provides comprehensive instruction on standard and offered to participants who already completed the on-line medical evaluation and will be fit-tested to wear a respirator (Certification Period: 12 months).

COR 120C Forklift (CERTIFICATION)

Hour/s: 8

This is an 8-hour course will address laws and regulations, stability principles, pre-operational inspection procedures, safe operating practices, and evaluating competency for a Class 1, 4, 5, and 7 forklift. There is a written test along with a hands-on operating test (Certification Period: 36 months).

COR 121C Retractable Loading Systems (CERTIFICATION)

Hour/s: 3

Participants learn the safety features, how to load and unload the platform, move and handle the load. They will be able to identify proper hook up, load limits, and range of motion (Certification Period: Permanent).

COR 122C Comprehensive Fall Protection Awareness (CERTIFICATION)

Hour/s: 16

The 16-hour Comprehensive Fall Protection Awareness training initiative will focus on a student's understanding of the practical application of fall prevention systems and their components. Students will be required to research standards and construction industry regulations associated with fall protection. The class will be comprised of, but not limited to: Code of Federal Regulations / Subpart M - Fall Protection, anchorage considerations, parts and components terminology and identification, inspection criteria, the hierarchy of fall protection, fall protection systems, hazard identification, rescue considerations, selection criteria, etc. (Certification Period: 60 months).



COURSE**DESCRIPTION**

COR 123C Disaster Site Worker (CERTIFICATION)	Hour/s: 8 This course is taught in conjunction with CPWR and is intended to provide safety and health training for the Building Trades construction workers who respond to catastrophic events as skilled support personnel (Certification Period: Permanent).
COR 124I Introduction to Behavioral Health (Instructor Access) COR 124S Introduction to Behavioral Health (Student Access)	Hour/s: 1 This course is designed to raise your awareness about mental health and substance use; to understand how to talk about these issues and to promote a culture of support and inclusion among IUPAT members and their families.
COR 125C Lead Abatement Worker - Missouri (CERTIFICATION)	Hour/s: 24 This course satisfies OSHA 1926.62 & MDH Lead regs for the worker initial. This 3 day (24-hour) course is a model class designed to enable the Instructor/s to train Lead Workers to perform his/her job with the knowledge and skills to work safely and productively while adhering to all state, federal and local regulations on lead and lead abatement practices (Certification Period: 24 months).
COR 126C Lead Abatement Worker - Illinois (CERTIFICATION)	Hour/s: 24 This course satisfies OSHA 1926.62 & IDH Lead regs for the worker initial (Certification period: 24 months).
COR 127C Lead Abatement Worker Refresher - Missouri (CERTIFICATION)	Hour/s: 8 This course satisfies OSHA 1926.62 & MDH Lead regs for the worker refresher (Certification period: 12 months).
COR 128C Lead Abatement Worker Refresher - Illinois (CERTIFICATION)	Hour/s: 8 This course satisfies OSHA 1926.62 & IDH Lead regs for the worker refresher (Certification period: 12 months).

COURSE

DESCRIPTION

COR 129C Forklift (CERTIFICATION)

Hour/s: 4

Forklift Workshop: This half-day Forklift safety program covers laws and standards related to forklift operation, daily forklift and area inspection, stability, key components, load engagement, stacking and tiering, refueling/recharging, traveling, understanding load rating charts, signaling, dealing with job-site and electrical hazards. 4 hour instructor time. The next day evaluation with instructor, to see if they can pass driving portion of test (Certification Period: 36 months).

COR 130C United Academy Scissor Lift Operator (CERTIFICATION)

Hour/s: 4

This new blended learning training program covers the theory and testing portions of scissor lift training using an interactive online presentation. This eLearning program can be accessed at your convenience, and can be completed in multiple sessions. Upon successful completion of the theory training and final exam, the learner must attend a live practical evaluation session to receive a certificate and wallet card.

COR 131C United Academy Aerial Boomlift Operator (CERTIFICATION)

Hour/s: 4

This new blended learning training program covers the theory and testing portions of boom lift training using an interactive online presentation. This eLearning program can be accessed at your convenience and can be completed in multiple sessions. Upon successful completion of the theory training and final exam, the learner must attend a live practical evaluation session to receive a certificate and wallet card.

Member Card Abbreviation: United Academy Aerial Boomlift

COR 132C United Academy Forklift and Rough Terrain Forklift Operator (CERTIFICATION)

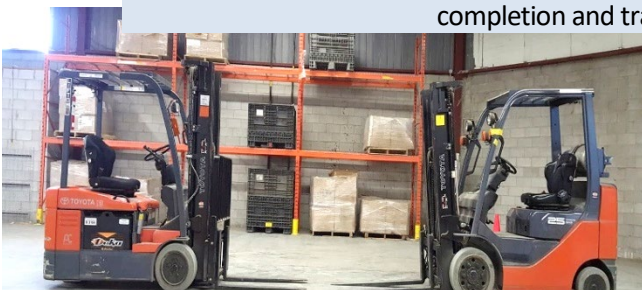
Hour/s: 3.5

This combined blended training program covers the theory and exam portions of counterbalance & rough terrain forklift training using interactive online presentations. These eLearning programs can be accessed at your convenience and can be completed in multiple sessions. Upon successful completion of the online portion of this program, the learner must attend a live practical evaluation session to receive a certificate and wallet card.

United Academy Core 4 (CERTIFICATION)

Hour/s: 32

Upon successful completion, our Core 4® Program certifies operators on boomlifts, scissorlifts, counterbalance forklifts and rough terrain forklifts. Trainees will receive comprehensive instruction on how to successfully present theory, coach, evaluate and test operators. Attendees receive in-depth instruction on how to effectively train and evaluate operators of forklifts and aerial lifts. Successful attendees will receive a certificate of completion and trainer wallet card (Certification Period: 36 months).



COURSE

DESCRIPTION

COR 134 OVERTON Mobile Elevated Work Platforms (MEWP) (CERTIFICATION)

Hour/s: 32

Each course will address laws and regulations, stability principles, pre-operational inspection procedures, safe operating practices, and evaluating competency. The Rigging course will also cover most types of slings and basic rigging hardware as well as the principles, practices and techniques of basic rigging. In conclusion the course also provides additional class teach-backs and a practical hands-on training for inspection, selection and basic safe rigging techniques (Certification Period: 36 months).

Formerly known as OVERTON Rigging-Lifts-Forklift-Hand Signaling (CERTIFICATION) - renamed as of February 24, 2023.

Instructor Course Code: FTI 1111C OVERTON Mobile Elevated Work Platforms (MEWP) (CERTIFICATION).

COR 135C Lead Abatement Worker (CERTIFICATION)

Hour/s: 8

Lead abatement course according to the OSHA 29 CFR 1926.62 standard (Certification Period: 12 months).

Member Card Abbreviation: Lead Abatement Worker Ref

COR 136C United Academy Aerial Boomlift and Scissor Lift Operator (CERTIFICATION)

Hour/s: 4.5

This combined blended learning program covers the theory and exam portions of boomlift & scissor lift training using an interactive online presentation. This eLearning course can be accessed at your convenience and can be completed in multiple sessions. Upon successful completion of the online portion of this program, the learner must attend a live practical evaluation session to receive a certificate of completion and wallet card. 4.5 hours Blended Learning - Certification

COR 137 Silica in Construction Training

Hour/s: 6

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Silica in Construction - State Building and Construction Trades - Council of California (safety@sbctc.org)

COURSE

DESCRIPTION

COR 138 Occupational Exposure to Silica

Hour/s: 4

OSHA has stated that over 2 million construction workers are exposed to silica hazards in their workplaces; this could be due to their work with a silica-based building material or exposure to silica on the job site because of what others around them are working with/doing and environmental and site conditions. Serious health outcomes can occur from chronic exposure to silica including silicosis and lung cancer. OSHA has finally developed specific silica rules for both construction and general industry which were effective June of 2016. This course will focus on what silica is, where it can be found, worker exposure, how it affects the body, silica controls and a review of the construction industry silica standard 29 CFR 1926.1153. This four-hour course will include small group activities including review of case studies, developing an exposure control plan and use of personal air sampling devices and media used to determine workers exposure.

Spanish Version - SPN 138 La Exposicion Profesional al Silice

COR 139 OVERTON Rigger Level I Test Prep

Hour/s: 20

This 20-hour training is a train-the-trainer course for the Rigger 1 prep class in preparation for the National Certification written exam including the CCO practical exam.

COR 140C Lead Worker Initial (NATEC) (CERTIFICATION)

Hour/s: 24

This course meets CDPH requirements for Lead-Worker training. In this 3-day course, students will learn how lead abatement is performed in a variety of settings. You will also learn how to safely handle lead materials during construction projects which impact surfaces coated with lead paint. This lead training course will provide the foundation necessary to work in a variety of lead construction projects and serves as the entry point for other lead-related work. Certificate of Completion: A CDPH Course Completion Form and a certificate documenting Lead-Related Construction Worker training is awarded to each student who attends the course. Full attendance is mandatory (Certification Period: 24 months).

COR 141C Respirable Crystalline Silica Awareness (CERTIFICATION)

Hour/s: 4

This is a 4-hour silica awareness course that addresses silica hazards found on jobsites throughout the construction industry. This course covers hazard recognition, health effects of exposure to airborne respirable crystalline silica, summary of 29 CFR 1926.1153 Respirable Crystalline Silica, hazard control alternatives, sample exposure control plans and exposure assessments, and safe work-practices and equipment (Certification Period: Permanent).

Spanish Version - SPN 141C Concientizacion Sobre Silice Cristalina Respirable (CERTIFICACION)

COURSE

DESCRIPTION

COR 142 Laser Hazards Hour/s: .25

This intermediate Laser Hazards online safety course is designed to communicate the importance of using the proper guidelines when working with lasers at the job site. It is recommended that you continue to expand your knowledge on laser safety by taking additional laser safety classes, such as Laser Safety Officer training. You can also follow up with the primary reference guide for this course, which can be found in 29 CFR 1926.54.

NOTE: This course is provided by a third-party vendor. Upon enrollment, a fee of \$29.75 will be charged to the District Council training fund. See [Third Party price list](#).

COR 143 TB Vaccine Hour/s: 1

Shot required to work in hospital locations.

COR 144C OSHA 500 Hour/s: 40

This course is designed for members interested in teaching the 10- and 30-hour construction safety and health outreach program. Special emphasis is placed on those topics that are required in the 10- and 30-hour programs as well as on those that are the most hazardous, using OSHA standards as a guide. Course participants are briefed on effective instructional approaches and the effective use of visual aids and handouts. This course allows the student to become a trainer and to conduct both a 10- and 30-hour construction safety and health course and to issue cards to participants verifying course completion. NOTE: Students in OSHA 500 who wish to participate as authorized trainers in the Outreach Program must successfully pass a written exam at the end of the course. Outreach trainers are required to attend Course 502 at least once every four years to maintain their trainer status (Certification Period: 48 months)

COR 145C OSHA 502 Hour/s: 24

This course provides an update for currently authorized OSHA Construction Industry Outreach Trainers on topics such as OSHA construction industry standards, policies and regulations. Construction industry outreach trainers are required to attend this course once every four years to maintain trainer status (Certification Period: 48 months)

COR 146C OSHA 510 Hour/s: 40

This is the basic instructor course in OSHA standards for the general industry. This course includes an overview of safety standards for non-construction workplaces. The course also includes information on the identification and remediation of hazards as well as reporting requirements (Certification Period: 48 months).

COURSE**DESCRIPTION****COR 147C OVERTON
Rigging
(CERTIFICATION)**

Hour/s: 8

This course, provided by Overton Safety Training, Inc. was designed in collaboration with the FTI to provide the knowledge and skills required for students to meet the ANSI, federal and state regulations, and manufacturer requirements for rigging. Students will demonstrate comprehension of the selection, inspection and safe use of basic rigging materials, hardware and other devices when attaching loads for overhead hoisting equipment. Classroom and hands-on experience will include a discussion and demonstration of safely rigging overhead loads, applying general crane safety rules and setup procedures. This course covers all training requirements per 29CFR1926.1400 – the rules about cranes on construction sites, or being used in a construction application and requires all riggers and signal persons to be qualified. At the end of the course, you will complete a comprehensive written exam and a practical evaluation (Certification Period: 36 months).

**COR 148C OVERTON
Signaling
(CERTIFICATION)**

Hour/s: 8

This course, provided by Overton Safety Training, Inc. was designed in collaboration with the FTI to provide the knowledge and skills required for students to meet the ANSI, federal and state regulations, and manufacturer requirements for crane signaling. Students will demonstrate comprehension of the use of proper hand, and voice signals and demonstrate the proper use of the signals and how they relate to crane dynamics and operations. This course covers all training requirements per 29CFR1926.1400 – the rules about cranes on construction sites, or being used in a construction application and requires all riggers and signal persons to be qualified. At the end of the course, you will complete a comprehensive written exam and a practical evaluation (Certification Period: 36 months).

**COR 149C USACE Fall
Protection
(CERTIFICATION)**

Hour/s: 24

Upon successful completion of the classroom training the participant will be able to pass a written examination demonstrating comprehension of the basic selection, inspection and safe use of fall protection systems and materials when in accordance with Federal OSHA Laws and United States Army Corps of Engineers (USACE) EM385 (Certification Period: 36 months).

**COR 150C Dunlop Mast
Climber
(CERTIFICATION)**

Hour/s: 8

Classroom and hands on demonstration of mast climbing scaffold. Following the means and methods of manufacturers safety operations, including fall protection and guidelines. This certification is an overview only. All mast climbing projects require site specific training (Certification: 60 months).

COURSE	DESCRIPTION
COR 151 Massachusetts 3A Hoisting License Preparation	Hour/s: 4 Preparatory class designed to prepare the user to take the Massachusetts 3A Hoisting exam. This class covers operation, rigging, owner and operators responsibility. This training meets the requirements mandated in OSHA overhead and gantry cranes 29CFR1910.179(b)(8), ASME B30.16 and OSH act of 1970 General duty clause 5(a)(1).
COR 152C Massachusetts 3A Continuing Education (CERTIFICATION)	Hour/s: 4 Massachusetts Hoisting license requirement. All Massachusetts Hoisting license holders are required to complete 4 hours of continuing education per discipline obtained (Certification Period: 12 months).
COR 153C NFPA Hot Work Safety (CERTIFICATION)	Hour/s: 3 NFPA's Hot works safety certificate program was created to help those in the construction industry develop awareness and understanding of dangers and safety procedures to promote safety on the work-site where hot work occurs (Certification Period: Permanent).
COR 154C Globally Harmonized System Hazard Communication (GHS Haz Com) (CERTIFICATION)	Hour/s: 4 This is a 4-hour hazard communication course that satisfies the general training requirements of OSHA's hazard communication standard 29CFR1910.1200. If this course is not tailored for participants' specific worksite, some additional training will be required at their worksite, such as what chemicals are in their work area, where Safety Data Sheets (SDSs) and the employer's written Haz Com program are located. CPWR has based this course on good adult education techniques, like involving students in small group activities. This approach will foster participation from the class and allow students to draw on their work experience to learn material and solve problems (Certification Period: Permanent).
COR 155C OSHA 5400 Standards for the Maritime Industry	Hour/s: 26 This course is designed for individuals interested in teaching the 10- and 30-hour Maritime safety and health Outreach Training Program to their employees and other interested groups. Special emphasis is placed on those topics required in the 10- and 30-hour Outreach Training Program as well as the most hazardous in the maritime industry using OSHA Maritime Standards as a guide (Certification Period: 48 months).

COURSE

DESCRIPTION

COR 156C OSHA 5410 - Occupational Safety and Health Standards for the Maritime Industry

Hour/s: 35

This course covers OSHA policies, procedures, and standards for the maritime industry. Using the OSHA Maritime Standards as a guide, special emphasis is placed on those areas in the maritime industry which are most hazardous. Upon course completion students will define maritime terms found in the OSHA Maritime Standards, identify hazards in the maritime industry and determine appropriate controls and abatement, locate OSHA Maritime Standards, policies and procedures, and describe the use of the OSHA Maritime Standards and regulations to supplement an ongoing safety and health program. Minimum student contact hours: 35

Prerequisites: None

COR 157C Initial Erosion and Sediment Course (CERTIFICATION)

Hour/s: 16

This is a 16-hour two-day classroom and field trip course which focuses on erosion and sediment control for the construction industry. Each attendee will be registered with the Department of Ecology and be issued a numbered certificate and the certification card required for on-site Certified Erosion Control Supervisors. Students must have Personal Protection Equipment PPE (hard hats, safety vests) for jobsite visit. Subjects covered in the CESCL course include: Project Scheduling, and Stormwater Pollution Prevention Plan (SWPPP) planning and development. Ecology approved Source Control BMPs. Infiltration and dispersal methods. Spill prevention planning. Stormwater discharge monitoring and reporting. Administrative record keeping. Practical application erosion inspection review. Permit compliance, Contract considerations. Legal Ramifications of noncompliance: personal and corporate liability. The Eco-3 CESCL Certification meets the requirements of Department of Ecology, WSDOT and Port of Seattle (Spec 8-01). Eco-3 Also offers EPA-Specific training for Idaho and ODOT and Oregon DEQ specific training (Certification Period: 36 months).

COR 158 Changing the Culture of Construction

Hour/s: 3.5

This training is designed to inform and empower the construction industry by separating fact from fiction and encourage our workforce to choose proactivity when it comes to behavioral health issues and addictions. Our goal is to educate individuals, in turn promoting a healthy, safe, and substance free working environment.

COR 159C NCCCO Rigger Level I Program (CERTIFICATION)

Hour/s: 32

NCCCO identified the following job duties for Rigger Level I certification. Level I Riggers should be able to demonstrate or have knowledge of how to inspect rigging before use, identify and attach rigging with basic knowledge of hitch configurations, capacities, and basic knots, recognize associated hazards signal operations, use various types of rigging equipment and basic hitches and their application (Certification Period: 60 months). For more details, go to <http://nccco.org/nccco/certification-programs/rigger>

COURSE**DESCRIPTION**

COR 160C NCCCO Mobile Crane (CERTIFICATION)	<p>Hour/s: 48</p> <p>The course consists of the Written Examination and Practical Examination Outline. The Core examination portion of the NCCCO Written Examination test the following knowledge relating to the operation of mobile cranes: Site, Operations, Technical Knowledge, and Load Charts.</p> <p>The Practical Exam tasks are Pre-Operational (Shift) Inspection, Place Chain in Stop Circle, Follow Hand Signals, Place Ball in Barrells, Negotiate Zigzag Corridor with Test Weight, and Safe Shutdown and Securing Procedures (Certification Period: 60 months).</p>
COR 161C NCCCO Signalperson Refresher (CERTIFICATION)	<p>Hour/s: 8</p> <p>NCCCO will conduct a one-day event for the CCO Signalperson (SGP) Practical Examiner Accreditation Program (PEAP) workshop. To be eligible to attend the Signalperson Practical Examiner Accreditation Workshop you must be certified in the Signalperson program (Certification: 48 months).</p>
COR 162C Health Hazards in Construction (CERTIFICATION)	<p>Hour/s: 3</p> <p>Health Hazards in construction is a three-hour awareness course that teaches participants how to read an SDS as well as the NIOSH Pocket Guide to Chemical Hazards. The course also explains the use and selection of respirators and their Assigned Protection Factor (Certification Period: Permanent).</p>
COR 163 Narcan	<p>Hour/s: 1</p> <p>The NARCAN training course teaches students how to recognize the signs of an opioid overdose, how to administer the opioid overdose reversal drug (NARCAN), and what steps to take post-administration. The training course also clarifies how the drug works and dispels any misconceptions about NARCAN as a drug. A demonstration is also provided to highlight the ease of administration.</p>
COR 164 Opioids - Use and Misuse*	<p>Hour/s: .75</p> <p>This online training course is designed for employees in all industries. In this course, you will learn about: what opioids are; their uses and effects; opioid dependence, addiction and overdose; workplace concerns about opioids; and what employers can do to mitigate the effects of workplace opioid use and misuse.</p>

COURSE**DESCRIPTION****COR 165 Compressed Gas***

Hour/s: 1

This Compressed Gases in the Workplace online training course is designed for employees who use compressed gases in their work. Learn about the types and properties of compressed gases and cylinders, the hazards associated with them, the dos and don'ts of working with them, and the regulations, standards and codes associated with their safe use.

COR 166 Not Yet Assigned

Hour/s: 5.5

COR 167C OSHA 7405 Fall Hazard Awareness (CERTIFICATION)

Hour/s: 5

The focus of this five-hour course is to identify, evaluate, and prevent or control fall hazards. The course focuses on falls to a lower level, not falls to the same level resulting from slips and falls. The target audience is the small construction employer, business owner, or manager, who would like to obtain information about fall hazards found in the workplace. The training is also suitable for employees and employee representatives. Topics include identifying fall hazards, analyzing fall hazards, and preventing fall hazards, as well as OSHA resources addressing fall hazards. Should be a prerequisite for Advanced training on Fall Protection and Fall Arrest Systems is available by registering for OSHA Course 3115 (Certification Period: Permanent).

COR 168C OSHA 7505 Incident Investigation (CERTIFICATION)

Hour/s: 8

This course covers an introduction to basic incident investigation procedures and describes analysis techniques. Course topics include reasons for conducting incident investigations, employer responsibilities related to workplace incident investigations, and a four-step incident investigation procedure. The target audience is the employer, manager, employee or employee representative who is involved in conducting incident and/or near-miss investigations. Upon course completion students will have the basic skills necessary to conduct an effective incident investigation at the workplace (Certification Period: Permanent).

COR 169 Mould Awareness* (Canada)

Hour/s: .5

Mould can be a serious workplace issue and can be hazardous to our health. In this module we define moulds, examine the health effects of mould exposure, review the duties of employers under current legislation, and outline methods of mould prevention and control.

COURSE**DESCRIPTION****COR 170C Mental Health First Aid (CERTIFICATION)**

Hour/s: 8

(2 hours prework and 6 hours virtual training)
Mental Health First Aid (MHFA) USA is a public education program that introduces participants to risk factors and warning signs of mental health problems, builds understanding of their impact and overviews appropriate supports. MHFA training uses role-playing and simulations to demonstrate how to offer initial help in a mental health crisis and connect people to the appropriate professional, peer, social and self-help care. The program also teaches common risk factors and warning signs of specific illnesses like anxiety, depression, and substance use (Certification Period: 36 months).

COR 171 Swing Stage

Hour/s: 8

In this course, students will learn how to choose the best combination of swing stage equipment for each job, how to use and handle swing stage equipment safely and while using fall arresting equipment to prevent serious or fatal injuries.

COR 172C HSI Adult First Aid CPR and AED (Blended Training)

Hour/s: 8

This course is offered in a blended learning format; students must complete the online course before attending the instructor-led skills session. The In-person skills session will be approximately 2 hours. The HSI Adult First Aid | CPR AED training program aims for participants to gain or improve knowledge and skill proficiency in adult first aid and CPR AED. HSI First Aid | CPR AED reflects the latest resuscitation science and treatment recommendations published by the International Liaison Committee on Resuscitation (ILCOR), and it conforms with the American Heart Association (AHA) Guidelines Update for CPR and ECC and the annual Guidelines Update (Certification Period: 24 months).

COR 173 Not Yet Assigned**COR 174C HSI Adult First Aid CPR and AED (Classroom Training)**

Hour/s: .8

An electrical hazard is one in which the possibility of being injured due to contact with an electrical source is high. Hazards such as unstable scaffolds and unprotected floor openings are easily recognized. However, most people do not recognize electrical hazards and therefore they do not appreciate the dangers associated with these hazards.

COURSE	DESCRIPTION
COR 175 Not Yet Assigned	Hour/s: X
COR 176 Electrical Hazard*	<p>Hour/s: .5</p> <p>An electrical hazard is one in which the possibility of being injured due to contact with an electrical source is high. Hazards such as unstable scaffolds and unprotected floor openings are easily recognized. However, most people do not recognize electrical hazards and therefore they do not appreciate the dangers associated with these hazards.</p>
COR 177 Lockout/Tagout*	<p>Hour/s: .5</p> <p>Accidents can happen anytime and anywhere and can result in equipment damage, personal injury, or even death. A potential, but preventable, cause of accidents is failing to properly isolate equipment before servicing or maintaining it. Ensuring that equipment is safe to work on is critical as uncontrolled hazardous energy cause unexpected startups or releases of stored energy that can be hazardous to workers.</p>
COR 178 Heat Stress*	<p>Hour/s: 4</p> <p>In this course, you will learn about the basics of heat stress and heat related illnesses in the work environment. It will review what heat stress is, who is affected, case studies, heat related illnesses, regulations/guidance related to heat stress, how to assess heat stress in the work environment and how to reduce workers risk to suffering from heat related illnesses. A small group, hands-on activity assessing heat stress will conclude the course.</p> <p><i>With Spanish Version - SPN 178 Estres Termico*</i></p>
COR 179 Hot Work Safe Practices	<p>Hour/s: .5</p> <p>This Hot Work Safe Practices online training course is designed for employees involved in hot work - i.e. any work using open flames or sources of heat that could ignite materials in the work area. Learners will be introduced to the fire triangle and other fire characteristics; safe work practices for hot work; roles and responsibilities of the individuals involved in hot work; and hot work permits.</p>

COURSE

DESCRIPTION

COR 180 Temperature Extremes

Hour/s: 4

The training will follow the OSHA guidance provided in Best Practices for the Development, Delivery, and Evaluation of Harwood Training Grants [OSHA 3686-09 2010] and the 2018 NIEHS Minimum Health and Safety Training Criteria. The Heat Stress Training will incorporate adult learning techniques, effective models for worker training, and training evaluation documentation. The course materials will include a syllabus, PowerPoint (PPT) slides, instructor/student manual, two hands-on and two small group activities, 4 toolbox talks and one factsheet. The full range of topics will include regulations and guidance, heat stress and HRI education combined with trade specific case studies, first aid, heat stress assessment and control methods.

COR 181 Respiratory Protection

Hour/s: 8

According to OSHA, millions of workers are required to wear respirators in various workplaces throughout the United States. IUPAT members will likely be exposed to hazardous chemicals during their work at some point. In some cases, dangerous amounts of these chemicals may contaminate the air and be made worse when work is being conducted in an enclosed or confined space. When engineering controls have been employed and there are still toxic levels of gases, vapors, aerosols or, a lack of oxygen in work areas, respirators are often the last means of defense. When respirator use is required, workers will need appropriate training to ensure respirators are the right type, in good repair and used correctly. OSHA has published a specific standard, 29 CFR1910.134 Respiratory Protection (Note: the construction industry respiratory protection standard 29 CFR 1926.103 uses the general industry standard-they are identical) that this course follows.

COR 182C Transportation Worker Identification Credential (CERTIFICATION)

Hour/s: 3

The Transportation Worker Identification Credential, also known as TWIC®, is required by the Maritime Transportation Security Act for workers who need access to secure areas of the nation's maritime facilities/vessels, and others who require a TWIC®. TSA conducts a security threat assessment (background check) to determine a person's eligibility and issues the credential. U.S. citizens and non-U.S. citizens in certain immigrant/non-immigrant categories may apply for the credential. Most mariners licensed by the U.S. Coast Guard also require a credential. Regarding card usage and facility access requirements, please contact the U.S. Coast Guard

A TWIC is a Transportation Worker Identity Card. This card is issued by the United States Transportation Security Administration and the United States Coast Guard. Individuals must have a TWIC to gain access to secure maritime facilities. These often include ships, ferries, dockside warehouses and port customs offices (Certification Period: 60 months).

COURSE**DESCRIPTION****COR 183 Fireproofing**

Hours: 16

The course introduces Passive Fire Protection (PFP) and its design, testing, and location of materials. The training will teach how to prepare the surface for fireproofing materials, understand datasheets and SDS of fireproofing production. The training is 8 hours classroom and 8 hours hands on. The hands-on training is for both spray and hand application of fireproofing materials. The course will also discuss the considerations for material selection and integrity management for PFP.

**COR 184 Not Yet
Assigned****COR 185 HSI Active
Shooter Response**

Hours: 7

Active Violence Emergency Response Training (AVERT) gives you the tools to understand how to recognize warning signs, react quickly in an active shooter situation, and learn how to control bleeding in life-threatening situations. AVERT is active shooter response training with the addition of techniques on how to stop the bleed of victims. When violence occurs, seconds count, and you can't always wait for EMS to arrive. AVERT is an active shooter training course that also enables you to become an immediate responder by learning emergency stop the bleed techniques. AVERT teaches how to recognize warning signs using situational awareness, decide whether to escape, evade or attack, apply critical stop the bleeding techniques, and respond quickly and confidently in an emergency.

**COR 186-191 Not Yet
Assigned****COR 192C
Coronavirus/Covid-19
Vaccine**

Hour/s: N/A

Placeholder for Coronavirus/Covid-19 vaccine record

**COR 193C NCCCO
Crane Signal Person
(CERTIFICATION)**

Hour/s: 32

This certification program is nationally recognized and internationally accredited to provide trained signalpersons, who are using hand and voice signals in crane operations, to become certified by successfully passing the Written and Practical Examinations conducted by the NCCCO (Certification Period: 60 months).

COURSE

DESCRIPTION

COR 194 NCCCO Crane Signalperson Test Prep

Hour/s: 4

This program is designed to assist student in preparing for the National Commission for the Certification of Crane Operators (NCCCO) Signalperson certification written and practical exam. This training program will teach and reinforce signalperson core competency domains to include safety, basic crane knowledge, situational awareness, hand signals and voice commands.

COR 195 Coronavirus Preparedness for Employers and Employees*

Hour/s: 0.5

Coronaviruses are a large family of viruses which may cause illness in animals or humans. In humans, several coronaviruses are known to cause respiratory infections ranging from the common cold to more severe diseases. The most recently discovered coronavirus causes coronavirus disease 2019 (COVID-19). This course will tell you about simple steps you can take to stay healthy and prevent the spread of the virus and disease.

*Spanish Version - SPN 195 Preparacion para el Coronavirus para Empleadores y Empleados**

COR 196 Hand Safety and Injury Prevention*

Hour/s: 0.25

Utility knives or “box cutters” are widely used tools for cutting a variety of materials. Learn to use them safely to avoid cuts to the hands and fingers.

COR 197 Handling Violence in the Workplace*

Hour/s: 0.83

One out of every four full time worker is harassed, threatened, or attacked on the job each year. That is a shocking statistic, yet most companies do not have a written policy on workplace violence, have not taken preventative measures, and probably do not understand the causes or warning signs of such behavior. While you hope a violent situation never occurs in your company, this course will help prepare you and your company to effectively manage violent situations should they occur.

COR 198 Pandemic Resiliency

Hous/s: 24

The course promotes the resiliency of educational facilities during infectious disease pandemics (with a focus on COVID-19) or outbreaks. The curriculum will emphasize current case studies and research affecting target training populations and facility types, infectious disease awareness (with emphasis on COVID-19), developing a Pandemic Plan (with example COVID-19 Plan), the selection and implementation of health and safety controls, and finding and using trusted sources of information.

NOTE: This is the training coming out of the awarded Susan Harwood Grant. There is a Spanish version - SPN 198 Resiliencia Pandemica and French version - FRE 198 Resilience a la Pandemie.

COURSE

DESCRIPTION

COR 199 PCB Awareness

Hour/s: 8

This 8-hour PCB awareness course will focus on the group of toxic chemicals called Polychlorinated Biphenyls (PCB) and what they mean for IUPAT member's health as well as what role they play in painting and allied trades work. The course will touch on what PCBs are and how they harm workers, workers families, the public and the Environment.

COR 1100C OSHA 10 - Construction/ Introduction to Health and Safety *

Hour/s: 10

OSHA 10-hour training for the construction industry requires instruction on the Focus Four Hazards, plus six elective courses. The Construction Focus Four include Fall Hazards, Caught-In or -Between Hazards, Struck-By Hazards, and Electrocution Hazards. Special emphasis will be placed on areas most hazardous, as indicated in OSHA standards. Upon successful completion of the course, Students will receive an OSHA 10-hour Construction Industry Outreach DOL course completion card (Certification Period: Permanent).

NOTE: This is a third party course. An initial flat fee of \$50.00 will be charged to the District Council training fund See [Third Party List price list](#).

Member Card Abbreviation: OSHA 10 - Construction

With Spanish version in the LMS (SPN 1100C OSHA 10 Horas Construcción) - \$72.00*

With New York version in the LMS (C09 1100C OSHA 10-Hour Construction Voice-Authentication (New York)) - \$72.00*

COR 1101C First Aid/CPR/AED (CERTIFICATION)

Hour/s: 8

The American Red Cross or The American Heart Association emergency response, automated external defibrillation, and cardiovascular pulmonary resuscitation, as well as emergency response, automated external defibrillation, and cardiovascular pulmonary resuscitation (Certification Period: 24 months).

With Spanish version in the LMS (SPN 1101 Primeros Auxilios/Reanimación Cardiopulmonar (RCP)/Desfibrilador Externo Automatizado (DEA))*

COR 1102C Respiratory Protection (CERTIFICATION)

Hour/s: 4

This course covers OSHA's requirements for respiratory protection in 29 CFR 1910.134. The primary objective of this course is to reduce workers' exposure to airborne contaminants (Certification Period: 12 months).

COURSE

DESCRIPTION

COR 1103 Ergonomics in the Workplace*

Hour/s: 4

This course is designed to teach the basic skills needed to create a healthy work environment, increase productivity and decrease ergonomic risk factors by recognizing the way in which we interact with our environment, specifically while at work. Students will learn ways in which the workplace and daily activities can be adapted to eliminate potential injuries. The course will also help the Student recognize potential risk factors in their environment and how they relate to musculoskeletal disorders.

With Canadian version in the LMS (CAN 1103 Ergonomics in the Workplace (Canada))*

With French version in the LMS (FRE 1103 Ergonomie au quotidien)*

COR 1104 Hand and Power Tool Safety Awareness

Hour/s: 6

Identifying the appropriate types of personal protective equipment such as hearing, eye or dust protection and determine when this equipment should be used.

Demonstrating/describing all general safety rules for powers tools and follow them. Explain the importance of using guards during the operation of power tools and the importance of using a properly rated extension cord.

COR 1105C Lead Abatement Worker (CERTIFICATION)

Hour/s: 24

This 3 day (24-hour) course is a model class designed to enable the Instructor/s to train Lead Workers to perform his/her job with the knowledge and skills to work safely and productively while adhering to all state, federal and local regulations on lead and lead abatement practices. Students in this course will discuss their roles and responsibilities as Lead Workers, safe work practices, PPE, health effects of lead exposure and other hazards as well as hands-on lead hazard control activities such as recognizing lead-based paint hazards, interior and exterior dust abatement, establishing containment areas, setting up and using decontamination processes, waste disposal and clean-up and inspection procedures. This class fulfills the US EPA's 16-hour lead specific training requirement (Certification Period: 36 months).

COR 1106C Lead Supervisor (CERTIFICATION)

Hour/s: 40

This course is designed for supervisors working on a job environment containing lead materials. By completion of the course, the supervisor will have the skills to provide a safe working environment for those working on a job where lead is present. This course is comprehensive and will provide for significant classroom-based knowledge and practical experiences in providing this information to his employees. Some of the objectives will cover a history of lead, legal and insurance issues, health effects of exposure, site characterization and pre-abatement planning, safety and health planning on the job and post health considerations (Certification Period: 36 months).

COURSE**DESCRIPTION****COR 1107C EPA RRP
(CERTIFICATION)**

Hour/s: 8

This course was developed by the U.S Environmental Protection Agency (EPA), in collaboration with the U.S. Department of Housing and Urban Development (HUD) to train renovation, repair, and painting contractors how to work safely in housing with lead-based paint and comply with EPA's Renovation, Repair, and Painting (RRP) Rule, and HUD's Lead Safe Housing Rule (Certification Period: 60 months).

**COR 1108I Stair and
Ladder Safety
(Instructor Access)**

Hour/s: 2

Most ladder accidents are caused by improper use. A good ladder safety program pays off in both human and economic terms. "Ladder Safety: Take The Right Steps," is designed to teach your workers the proper techniques for using all types of ladders found in your facility. Oftentimes, the warning stickers attached to the ladder go unnoticed. This program increases your employees' awareness and respect for the potential hazards by helping them to relate real accidents to warning stickers. The stickers are then used to take them through the steps of ladder safety: selection, inspection, setup, safe techniques and proper maintenance and storage while on the ladder.

With French version in the LMS (FRE 1108 Les echelles en toute securite)*

*With Portuguese version in the LMS *POR 1108 Seguranca em Escadas e Escadotes)*

**COR 1109 Ladder
Safety Training (ALI)***

Hour/s: 4

The American Ladder Institute's online ladder safety training provides participants with detailed and illustrated instruction on the techniques required to effectively select, inspect, set-up, use and care for stepladders, single and extension ladders, and articulated ladders.

**COR 1110C Master
Firestopping
(CERTIFICATION)**

Hour/s: 4

The Firestop Installer Certification Program sets a standard of quality, identifying the most highly trained professionals in firestopping installations. This course teaches general firestopping information and trade-specific installation details. The course objectives focus on explaining what firestopping is, recognizing the need for firestopping, and learning how it works. Students will explore the 3M product line and the technologies incorporated in fire barrier products. Students will also gain an understanding of the testing requirements for firestop "systems" and will become familiar with associating system approach to firestop applications (Certification Period: Permanent).

COURSE**DESCRIPTION****COR 1111C Confined Space (CERTIFICATION)**

Hour/s: 16

In this course, students will study OSHA's Permit-Required Confined Spaces standard (29 CFR 1910.146). This course is designed to enable students to recognize, evaluate, prevent, and abate safety and health hazards associated with working environment associated with confined space entry. Technical topics include the recognition of confined space hazards, basic information about instrumentation used to evaluate atmospheric hazards, and ventilation techniques (Certification Period: Permanent).

COR 1112 Electrical Safety*

Hour/s: 8

The course is intended to increase the workers' awareness and respect of electricity and its potential hazards. They will review the basic principles of electricity and how it works, learn skills and techniques to perform their jobs safely and participate in electrical safety-related work activities that can be transferred to their jobs.

With French version in the LMS (FRE 1112 Les risques electriques)*

COR 1113C EPA Model Asbestos Worker (32-Hour) (CERTIFICATION)

Hour/s: 14

The 32-hour Asbestos Abatement Worker course addresses the training requirements of OSHA, EPA and individual states, as appropriate. It offers extensive hands-on training with personal protective equipment specific to asbestos abatement work, and covers health effects, control and decontamination methods, and laws and regulations (Certification Period: 12 months).

Member Card Abbreviation: EPA Model Asbestos Worker32-Hr

COR 1114 EPA Model Asbestos Abatement

Hour/s: 16

This course covers currently available procedures and practices for asbestos abatement projects. Guided discussions will cover detailed considerations of abatement projects, including: background information on asbestos, health effects, and legal/insurance considerations. This is followed, in phases, by detailed instructions and explanations describing how to set up and complete an asbestos abatement project.

COURSE**DESCRIPTION****COR 1115I Forklift
Safety Awareness
(Instructor Access)**

Hour/s: 4

**COR 1115S Forklift
Safety Awareness
(Student Access)**

Forklift accidents can lead to injuries, property damage and even deaths. They are costly in medical bills, insurance, lost wages and rehabilitation. As many as 34,000 forklift-related injuries were treated in U.S. emergency rooms in one year and that number is steadily rising. The objective of this training is to provide an awareness of safe work practices and safe driving skills for operators of powered industrial trucks. The training program also covers OSHA's training requirements for operators of powered industrial trucks required in Standard 29 CFR 1910.178. By training operators to properly operate powered industrial trucks, you can reduce forklift accidents, property damage, and injuries which will help to create a safer work environment for both operators and pedestrians.

*NOTE: Annual training required by OSHA, Certification comes from Overton (COR 1126C) valid for 36 months.
With Spanish version*

**COR 1116C Hazardous
Communication
(CERTIFICATION)**

Hour/s: 4

Although many of the chemicals used in industry are potentially hazardous. The Hazard Communication or "Right-to-Know" standard provides for the communication of information needed to ensure the safety and health of those who work with or near hazardous substances. This program is designed to provide Students with a basic understanding of the requirements of the Hazard Communication Standard (1910.1200) and safe work practices to follow. In this program, Students will learn: Hazard Identification, including the Four Main Container Labeling Systems; the Main Types of Hazards; how Hazardous Substances Enter the Body; how to Use Material Safety Data Sheets; Safe Work Practices (Certification Period: Permanent).

**COR 1117I Hearing
Conservation
(Instructor Access)**

Hour/s: 4

**COR 1117S Hearing
Conservation (Student
Access)**

"Hearing Conservation: A Sound Choice," explains the purpose and benefits of a hearing conservation program and the importance of wearing hearing protection when needed. The Occupational Noise Exposure Standard (29 CFR 1910.95) and Hearing Conservation Amendment are designed to prevent noise-induced hearing loss in the work place. Students will learn about how the ear hears sounds, the effects of noise on their hearing, audiometric testing, and proper protective measures to prevent hearing loss.

COURSE**DESCRIPTION****COR 1118C Lockout /
Tagout
(CERTIFICATION)**

Hour/s: 4

Approximately 144 fatalities occur every year due to incidents involving the accidental release of hazardous energy in the work place. Failure to follow LOCKOUT/TAGOUT procedures can also lead to severe injuries such as contusions, lacerations, and amputations. OSHA believes that the LOCKOUT/TAGOUT standard (29CFR 1910.147) will prevent 85percent of the injuries or fatalities that occur from exposure to hazardous energy in the work place. Students in the course will learn the essentials of lockout / tagout. Objectives include discussions on why lockout/tagout is necessary; potential hazards associated with the accidental release of stored energy; proper procedures for lockout/tagout; special lockout/tagout situations; equipment startup and operation procedures; and their role in preventing incidents (Certification Period: Permanent).

With French version in the LMS (FRE 1118 Le verrouillage et l étiquetage)*

**COR 1119C Fall
Protection
(CERTIFICATION)**

Hour/s: 8

Falls are the second leading cause of death in the workplace. With the proper training and equipment, those deaths from falling could have been prevented. The objective of this Summit program, "Fall Protection: Taking Control," is to train your employees to recognize potential fall hazards in their work place and provide them with an understanding of the proper use and care of personal fall protection equipment, with an emphasis on fall arrest systems. The program also discusses the importance of a pro-active safety attitude in preventing work place falls (Certification Period: Permanent).

**COR 1120I Scaffold
Awareness/Safe Work
Practices (Instructor
Access)**

Hour/s: 8

Scaffolding has evolved into a safe and efficient way to get workers and materials to jobs that cannot be done safely from a ladder or the ground. There are many types of scaffolds that can be used for a range of jobs. Prior to working on any scaffold, OSHA requires your employer to provide training to the employees. This training must make you aware and able to recognize the hazards associated with the type of scaffold being used and how to control and minimize hazards.

**COR 1120S Scaffold
Awareness/Safe Work
Practices (Student
Access)****COR 1121C Scaffold
Erector and Dismantler
(CERTIFICATION)**

Hour/s: 8

This course provides an introduction to the safety requirements for constructing and working on scaffolds specified in 29 CFR 1926.451. The Erecting and Dismantling course covers at least the pre-planning, inspection of scaffold components, load capacity, platform construction, access, fall protection, falling objects protection, and dismantling (Certification Period: Permanent).

Member Card Abbreviation: Scaffold Erector & Dismantler

COURSE	DESCRIPTION
COR 1122C Scaffold Competent Person (CERTIFICATION)	<p>Hour/s: 32</p> <p>This Scaffold Competent Person Course is intended for individuals designated as The Scaffold Competent Person, by their employer, to ensure scaffolds are erected properly and worked on safely. This course will cover the OSHA Scaffold Standards, and is designed to provide Students with the essential knowledge and skills to effectively understand scaffold hazards and how to mitigate them (Certification Period: Permanent).</p>
<i>COR 1123 Not Yet Assigned</i>	<i>Hour/s: X</i>
COR 1124 Solvents and Hazardous Materials	<p>Hour/s: 8</p> <p>This course will focus on the many hazards possible with the use and handling of solvents. Topics include: safety equipment and PPE, safety rules and regulations associated with solvent handling and use; solvent-related emergency, medical procedures and health effects. The course will also introduce solvent container disposal procedures and MSDS information for any solvents that may be used.</p>
COR 1125C Aerial Lifts (CERTIFICATION)	<p>Hour/s: 8</p> <p>Aerial lifts are another means of getting workers, equipment, and/or materials to where they are needed on the job. There are two basic kinds of aerial lifts: scissor lift and boom lift. Upon completion of this course, Students should be familiar with both boom and scissor lifts and their individual uses. They should know the safety rules, precautions and operation of man lifting devices; be able to perform a visual inspection prior to operating a man lifting device and be familiar with emergency related safety features associated with man lifting devices (Certification Period: 36 months).</p>
COR 1126C OVERTON Rigging and Signaling (CERTIFICATION)	<p>Hour/s: 8</p> <p>This course covers all training requirements per 29CFR1926.1400 - rules about cranes on constructions sites or being used in a construction application - all riggers and signal persons must be qualified. This 1 and a half-day course covers everything in the federal crane rule in the classroom training or take a full 2 days to become qualified to do all training in-house. At the end of the course, you will take a comprehensive written exam and have a practical evaluation (Certification Period: 36 months).</p>
COR 1127 OSHA Standard Awareness on Hexavalent Chromium	<p>Hour/s: 1</p> <p>This 1- hour course is designed to promote awareness of OSHA's standards for the rights and responsibilities of the employee and employer when exposure to Chromium VI and its associated hazards are presented on the job.</p>

COURSE	DESCRIPTION
COR 1128C SSPC Lead Paint Safety Worker (CERTIFICATION)	<p>Hour/s: 8</p> <p>This one-day course provides training for workers on lead paint abatement and removal from steel structures. It starts with a review of basic information about lead and the human health hazards associated with it. The course continues with a review of 29 CFR 1926.62 and presents detailed information on the Respiratory Protection Standard (29 CFR 1910.134), which is incorporated by reference into the OSHA Interim Final Lead in Construction Industry Standard. The course then presents a review and update of Federal Government regulations involving lead, focusing on regulations promulgated by the EPA. The course concludes with a review of emissions control as presented in SSPC Guide 6 (Certification Period: Permanent).</p> <p><i>Member Card Abbreviation: SSPC Lead Paint Safety Worker</i></p>
COR 1129C Infection Control Risk Assessment (ICRA) (CERTIFICATION)	<p>Hour/s: 8</p> <p>This 8-hour course is designed to clearly communicate to provide awareness to the contractor, the Health Care Facility's commitment to the prevention and spread of health care associated infections through specific controls, barriers, rules and regulations (Certification Period: Permanent).</p> <p><i>Member Card Abbreviation: Infection Control Risk Assess</i></p>
COR 1130C OSHA 30*	<p>Hour/s: 30</p> <p>Through this program, supervisors and workers responsible for safety on the job will attend a 30-hour class delivered by OSHA-authorized trainers. This OSHA training helps to ensure that workers are more knowledgeable about workplace hazards, their rights, and contribute to our nation's productivity (Certification Period: Permanent).</p> <p><i>NOTE: This course is provided by a third-party vendor. Upon enrollment, a fee of \$117.00 will be charged to the District Council training fund. See Third Party price list. There is a Spanish version: SPN 1130C OSHA 30 Horas Construccion*</i></p>
COR 1131 Construction Safety Awareness	<p>Hour/s: 4</p> <p>New workers are often thrust into environments with little or no structured safety training, and therefore quite vulnerable to injury and accident. This topic has been developed to expose new or market recovery type workers to construction and manufacturing hazards. The class is very basic in nature: Tidbits of information will be communicated relative to: Hazard recognition, Construction and manufacturing danger. Safe work practices, PPE, OSHA, Proper lifting techniques, Material handling, Accident causation, Worker rights and responsibilities, Production mindset (Impressing the boss), Hand and power tools, Accident and injury prevention, and Training.</p> <p><i>NOTE: For DC 15 - Company-wide quarterly safety meeting. Special topic safety issues are discussed, and any accidents or near misses are reviewed and discussed.</i></p>

COURSE

DESCRIPTION

COR 1132 Drug and Alcohol Addiction Awareness*

Hour/s: 1

This course provides students with an understanding of how drug and alcohol use affects the person, their family and the workplace. Students will be able to learn and discuss the basic elements of drugs and alcohol, and how they may affect a person physically and mentally. These issues are covered and attention is given to the casual or social use of drugs. Students will also learn how employees have a responsibility as members of the group and that alcohol and drug use not only affects themselves, but others around them. Additionally, this course exposes students to the alcohol and drug policy of the apprenticeship school and explains where members can gain assistance if they have a problem.

COR 1133C Hazardous Waste Operations & Emergency Response (HAZWOPER) (CERTIFICATION)

Hour/s: 40

Students will complete a 40-hour class to be trained in recognizing and researching hazards, including the nature and causes of occupational diseases, relating OSHA standards to unsafe conditions; protecting workers' rights; and using involvement techniques for safety purposes.

This Hazardous Waste Worker Course, developed by CPWR for the Construction Consortium for Hazardous Waste Worker Training, meets all requirements for the initial 24 or 40-hour training. More importantly, it has been designed to meet your needs. The course has been prepared for building trades workers, by building trades workers, and is meant to be taught by experienced trades' people. This course will help you to learn about your legal rights and responsibilities, how to recognize and control hazards, how to obtain information about hazardous materials, and how to use and decontaminate respirators and protective clothing. You will also learn about correct work practices, air and medical monitoring, and emergency response (Certification Period: 12 months).

Member Card Abbreviation: HAZWOPER



COURSE

DESCRIPTION

COR 1134C OSHA 10 - Construction/ Introduction to Health and Safety Refresher

Hour/s: 10

OSHA 10-hour training for the construction industry requires instruction on the Focus Four Hazards, plus six elective courses. The Construction Focus Four include Fall Hazards, Caught-In or -Between Hazards, Struck-By Hazards, and Electrocution Hazards. Special emphasis will be placed on areas most hazardous, as indicated in OSHA standards. Upon successful completion of the course, Students will receive an OSHA 10-hour Construction Industry Outreach DOL course completion card (Certification Period: Permanent).

Member Card Abbreviation: OSHA 10 - Construction Refresh

COR 1135C Lead Abatement Worker Refresher (CERTIFICATION)

Hour/s: 16

This refresher course is a model class designed to enable the Instructor/s to train Lead Workers to perform his/her job with the knowledge and skills to work safely and productively while adhering to all state, federal and local regulations on lead and lead abatement practices. Students in this course will discuss their roles and responsibilities as Lead Workers, safe work practices, PPE, health effects of lead exposure and other hazards as well as hands-on lead hazard control activities such as recognizing lead-based paint hazards, interior and exterior dust abatement, establishing containment areas, setting up and using decontamination processes, waste disposal and clean-up and inspection procedures. This class helps fulfill the US EPA's lead specific training requirement (Certification Period: 12 months).

Member Card Abbreviation: Lead Abatement Worker Refresh

COR 1136C Mine Safety (CERTIFICATION)

Hour/s: 8

In this course students will be trained in the Line of Authority at the Mine, Introduction to a Mine Site, Emergency Procedures, Statutory Rights, Hazard Recognition and Avoidance, Reporting Hazards, Health and Safety Aspects of Assigned Tasks, Respiratory Protection and First Aid Methods (Certification Period: 12 months).



COURSE

DESCRIPTION

COR 1137C Hazardous Waste Operations and Emergency Response (Hazwoper) Refresher (CERTIFICATION)

Hour/s: 8

This Hazardous Waste Worker Course, developed by CPWR for the Construction Consortium for Hazardous Waste Worker Training, meets all requirements for the initial 24 or 40-hour training. More importantly, it has been designed to meet your needs. The course has been prepared for building trades workers, by building trades workers, and is meant to be taught by experienced trades' people. This course will help you to learn about your legal rights and responsibilities, how to recognize and control hazards, how to obtain information about hazardous materials, and how to use and decontaminate respirators and protective clothing. You will also learn about correct work practices, air and medical monitoring, and emergency response (Certification Period: 12 months).

Member Card Abbreviation: HAZWOPER Refresher

COR 1138 Knot Tying

Hour/s: 4

Correctly securing safety lines, and material lines, depends on the skills of the person securing the line. In this course participants will practice tying different knots and discuss their correct application. This course also demonstrates the "Hold-Me Device" that is being required in lieu of knot tying on many jobs today.

COR 1139C Respirator Fit Test (CERTIFICATION)

Hour/s: 2



This meets with OSHA minimum requirements under the Respirator Standard 29CFR 1910.134. It is comprehensive in that it not only provides instruction on the standard but is offered complete with medical evaluation and fit testing. This training is required for all employees covered under the Construction Industry Substance Abuse Program. The training includes instruction on the dangers of substance abuse in the workplace, types of and procedures for testing, and the disciplinary policy associated with positive testing.

Participants will take the on-line medical questionnaire and will be cleared upon completion to proceed with the Respiratory Fit Test. Board-certified occupational medicine physicians review the questionnaires requiring further evaluation. Upon clearance a Fit Test will be conducted and the participant will be issued a Respiratory Fit Test Card with Respirator model and size.

OSHA29CFR1910.134 (f): "... requires that, before an employee may be required to use any respirator with a... tight-fitting face piece, the employee must be fit tested with the same make, model, style, and size of respirator that will be used." (Refer to CSA Z94.4-11 sections 9.1.2 & 9.1.3 for comparative statements). (Certification Period: 12 months)

COURSE

DESCRIPTION

COR 1140C Lead Based Paint Abatement Structural Steel (WI) (CERTIFICATION)

Hour/s: 8

This 8-hour course is designed to enable the Lead Worker to perform the requirements on the job with the knowledge and skills to work safely and productively while adhering to all State, Federal, and Local regulations on lead and lead abatement. Participants in this course will discuss their roles and responsibilities as a Lead Worker as well as safe work practices, personal protective equipment, and health effects of lead exposure and other hazards. Participants may discuss topics related to industrial lead abatement including preparing for lead abatement and recognizing lead based paint hazards, interior and exterior dust abatement, waste disposal, clean up, and inspection procedures. Participants will receive a Certification Photo ID card issued by the State of Maryland Department of the Environment in Structural Steel Lead Based Paint Abatement upon successful completion of this course (Certification Period: 36 months).

Member Card Abbreviation: Lead Abatmnt Struct Steel (WI)

COR 1141C Lead Based Paint Abatement Washington DC (CERTIFICATION)

Hour/s: 16

This is a 16-hour course designed to enable the Lead Worker to perform the requirements on the job with the knowledge and skills to work safely and productively while adhering to all State, Federal, and Local regulations on lead and lead abatement. Successful completers can work with any lead paint hazards (paint, soil, dust, water) under the supervision of an accredited lead supervisor. Once trained the course completer will be given information regarding the requirements for acquisition of the Lead Abatement Worker Certification Card issued by the DC Department of the Environment (Certification Period: 36 months).

Member Card Abbreviation: Lead Based Paint Abatement DC

COR 1142C Lead Based Paint Abatement Virginia (CERTIFICATION)

Hour/s: 16

This is a 16-hour course designed to enable the Lead Worker to perform the requirements on the job with the knowledge and skills to work safely and productively while adhering to all State, Federal, and Local regulations on lead and lead abatement. Successful completers can work with any lead paint hazards (paint, soil, dust, water) under the supervision of an accredited lead supervisor. Once trained the course completer will be given information regarding the requirements for acquisition of the Lead Abatement Worker Certification Card issued by the Commonwealth of Virginia Department of Professional and Occupations Regulation (Certification Period: 36 months).

Member Card Abbreviation: Lead Based Paint Abatement VA



COURSE

DESCRIPTION

COR 1143C Basic Traffic Control (CERTIFICATION)

Hour/s: 4

The FTI of Maryland, Virginia, Washington, DC, and Vicinities is a provider of the Virginia Department of Transportation (VDOT) standards for temporary traffic control. The basic work zone traffic control course was adopted by the American Traffic Safety Services Association (ATSSA) and meets the job site requirements for work zone traffic control (Certification Period: Permanent).

COR 1144C Lead Based Paint Abatement Worker (W2) (CERTIFICATION)

Hour/s: 8

This is an 8-hour course designed to enable the Lead Worker to perform the requirements on the job with the knowledge and skills to work safely and productively while adhering to all State, Federal, and Local regulations on lead and lead abatement. Successful completers can work with any lead paint hazards (paint, soil, dust, water) under the supervision of an accredited lead supervisor. This course does not include lead based paint abatement for Structural Steel (MDE W1) (Certification Period: 36 months).

COR 1145 Lead and Asbestos Awareness*

Hour/s: .5

Asbestos is a serious workplace health issue. In this course we look at what asbestos is and where it can be found, including different asbestos uses. We also examine the health concerns and how to evaluate exposure to asbestos. Finally, we review the legislation concerning asbestos and provide an overview of workplace asbestos control strategies.

*With Spanish version - SPN 1145 Concientizacion Sobre el Plomo y el Asbesto**

NOTE: This course is provided by a third-party vendor. Upon enrollment, a fee of \$53.00 will be charged to the District Council training fund. See [Third Party price list](#).

COR 1146C OSHA 10 – Maritime

Hour/s: 10

The course has been designed for all people working in the Maritime Industry who either want to learn more about workplace safety and health hazard recognition. Special emphasis has been placed on those areas in the Maritime industry that are the most hazardous, using the OSHA 29 CFR 1915; 1917; and 1918 standards as a resource. Topics covered in this course include Introduction to OSHA, Walking and Working Surfaces, Personal Protective Equipment, Fall Protection/Scaffolding, Electrical, and Confined and Enclosed Spaces (Certification Period: 60 months).



COURSE

DESCRIPTION

COR 1147 Health and Safety Special Topics I

Hour/s: 40

Safety on a job site should be a major concern for anyone working. A safe working environment can only be achieved by each individual present on a job site. Employers and the individual employees with whom they work must take responsibility to develop safe work habits at all times. No job site is safe without individuals who are aware of their own health and safety. This course provides a study of topics relative to health and safety in the construction industry.

COR 1148 Aerial Lifts Refresher

Hour/s: 4

This course will review the different types of aerial lifts and their related safety rules and precautions.

NOTE: Annual training required by OSHA, Certification comes from Overton (COR 1126C) valid for 36 months.

COR 1149 0-8 Ton Mobile Crane Operator

Hour/s: 8

This course is designed to convey knowledge and skills on the legal and safe operation of cranes, with particular emphasis on the 0-8 ton mobile crane. This course is designed to convey knowledge and skills on the legal and safe operation of cranes, with particular emphasis on the 0-8 ton mobile crane. Topics will include all health and safety regulatory acts, as well as other regulations, guidelines, codes and standards that must be followed when operating a crane. Topics specific to crane operation include basic crane operating procedures; operating near high voltage; signals and communication; outriggers and stabilizers; wire rope; rigging and hardware; pre-operational inspections; CSA Z-150 safety code on mobile cranes; crane set-up; and crane site access and site inspection.

COR 1150C Haz Com/Fall Protection/Lead Refresher (CERTIFICATION)

Hour/s: 8

This refresher course offered by DC 57 provides certification for the following courses: (a) Haz Com; (b) Fall Protection; and (c) Lead (Certification Period: 12 months).

Member Card Abbreviation: HazCom/FallProtection/Lead Ref



COURSE**DESCRIPTION****COR 1151 Aerial Lifts/Hoisting License Prep**

Hour/s: 10

Operation of machinery that is hydraulically operated enabling the worker to lift himself/herself into an elevated working position, while being hoisting and/or carrying material into place. License #143. No. FG-2 required or Boom Truck and Forklift. Training requires special licenses for Aerial lift with glass and forklift in Rhode Island. This would offset the FG-2 40 hours of training required in CT.

NOTE: Annual training required by OSHA, Certification comes from Overton (COR 1126C) valid for 36 months.

COR 1152 Rhode Island Forklift/Construction

Hour/s: 10

This course prepares the attendee for successful completion of the Fork Truck Operator in RI. License #147.

COR 1153C Lead Abatement Vermont (CERTIFICATION)

Hour/s: 8

This 8-hour course is designed to enable the Instructor/s to train Lead Workers to perform his/her job with the knowledge and skills to work safely and productively while adhering to Vermont (VT) regulations on lead and lead abatement practices (Certification Period: 12 months).

COR 1154C OVERTON Rigging and Signaling Refresher (CERTIFICATION)

Hour/s: 8

Refresher for Rigging and Signaling created by OVERTON to provide knowledge and skills for students to meet ANSI, federal and state regulations, and manufacturer requirements for operator safety training on forklifts, aerial lifts, rigging and signaling. Classroom and hands-on experience include discussion and demonstration of rigging overhead loads, applying crane safety rules, setup procedures, and proper use of a forklift. Students are also refreshed in signals and demonstrate their proper use (Certification Period: 36 months).

Member Card Abbreviation: Overton Rigging & Signal Ref

COR 1155C Forklift Refresher (CERTIFICATION)

Hour/s: 4

This is a 4-hour forklift refresher course will address laws and regulations, stability principles, pre-operational inspection procedures, safe operating practices, and evaluating competency for a Class 1, 4, 5, and 7 Forklift. There is a written test along with a hands-on operating test (Certification Period: 36 months).

COURSE

DESCRIPTION

COR 1156 Lead Awareness

Hour/s: 1

This 1-hour awareness course will contain information concerning lead hazards, in association with construction activities, according to the requirements of OSHA's Hazard Communication Standard for the construction industry. An explanation of lead's Permissible Exposure Limit (PEL) and Action Level and the specific nature of the operations which could result in exposure to lead above the action level will also be covered.

COR 1157 Lift Awareness/Fall Protection/Lead Refresher

Hour/s: 8

This refresher course offered by DC 57 provides certification for the following courses: (a) Lift Awareness; (b) Fall Protection; and (c) Lead.

COR 1158 Personal Protective Equipment*

Hour/s: 1

More than one-quarter of all disabling injuries involve the head, eyes, hands or feet. Personal protective equipment, or PPE, is designed to protect you from those health and safety hazards that cannot practically be removed from your immediate work environment. In this course we will review the most common types of PPE. You'll find out when and where you need PPE, how to choose the correct equipment for your work environment, and the limitations of the equipment you use.

With French version in the LMS (FRE 1158 L Equipement de Protection Individuelle (EPI) – Generique)*

COR 1159 Back Safety*

Hour/s: 1.5

This course explains the physiology of the back and presents common types and causes of back injuries. It also describes injury prevention, safety practices, basic back exercises, and proper lifting techniques. It also discusses manual material handling involves the moving of material by hand through lifting, lowering, carrying, pushing, pulling, shoveling or any combination of these actions. About 58% of back injuries are caused by manual material handling. In this course, we look at the anatomy of the back, injuries of the back caused by manual material handling and how to prevent them.

With French version in the LMS (FRE 1159 Manutention manuelle des materiaux et prevention des blessures au dos)*

COURSE

DESCRIPTION

COR 1160 Conducting Workplace Inspections*

Hour/s: 1.5

A workplace inspection is a planned critical examination of a workplace or a specific area within a workplace. The purpose of regularly scheduled workplace inspections is to prevent incidents by identifying hazards and recommending corrective actions. In this course, you will learn how to plan and conduct efficient workplace inspections.

Every workplace has hazards and risks. Some are minor, some are life- and property-threatening, and many fall somewhere in between. In this course, you will learn common methods for identifying hazards – things with the potential to cause harm – and assessing risks - the likelihood that there will be harm from a hazard and how severe the harm will be. Learn to protect workers' safety and health by putting controls in place to reduce or eliminate hazards.

COR 1161 Globally Harmonized System Overview / Safety Data Sheets

Hour/s: 1

This course covers the key elements brought about by the GHS and discusses how those elements have been incorporated into U.S. regulations, including OSHA's Hazard Communication Standard.

The Globally Harmonized System for the Classification and Labeling of Chemicals (GHS) was developed by the United Nations in an effort to better align regulations and standards governing the handling and transport of hazardous materials across different countries. This course covers the key elements brought about by the GHS and discusses how those elements have been incorporated into U.S. regulations, including OSHA's Hazard Communication Standard.

Placeholder – No Content

COR 1162 Occupational Noise and Hearing Loss

Hour/s: 4

This course will cover what sound and noise is and how it behaves, how hearing can be damaged hearing and different types of hearing disease, OSHA noise regulations and how to measure and control noise. This class will include multiple small group and hands-on activities including using sound level meters to measure noise from different sources, construct and evaluate engineering noise controls and evaluate a hearing conservation program.

COURSE

DESCRIPTION

COR 1163 Safety in Fire Prevention*

Hour/s: 0.5

This course provides basic information on the precautions and procedures necessary for fire protection and safety in the workplace. Topics covered include fire prevention techniques, the types and classes of fires and fire extinguishers, and first aid procedures for dealing with fire-related injuries.

COR 1164 Bloodborne Pathogens*

Hour/s: 1

Exposure to bloodborne diseases is a serious concern today. In 1991, the Occupational Safety and Health Administration (OSHA) created a regulation dealing with bloodborne pathogens—the disease-causing microorganisms found in human blood components and products. This course will show you how exposure to bloodborne pathogens occurs so that you can help protect yourself and others.

With French version in the LMS (FRE 1164 Securite en matiere d agents pathogenes transmissibles par le sang a l intention des employes canadiens)*

COR 1165 Temporary Work Platforms - Safety Awareness

Hour/s: 32

This training program provides basic safety awareness so that the student will have a better understanding of select types (manufacturers) of temporary work platforms, as well as the potential hazards during the erection, the use and dismantling of these systems.

COR 1166C OSHA/Lead

Hour/s: XX

Information concerning lead hazards according to the requirements of OSHA's Hazard Communication Standard for the construction industry, 29 CFR 1926.59, including but not limited to warning signs and labels, material safety data sheets (MSDS) will be communicated along with exposure to lead at or above the action level on any day (Certification Period: Permanent).

COR 1167C EPA RRP Refresher (CERTIFICATION)

Hour/s: 4

Students will learn how to comply with the new EPA Lead RRP ruling by implementing lead base work practices during renovation, repair and painting projects. In addition, issues such as business and liability concerns including contracts, insurance, recordkeeping and bidding are addressed (Certification Period: 60 months).

COURSE	DESCRIPTION
COR 1168C SPIDER Staging (CERTIFICATION)	<p>Hour/s: XX</p> <p>Safe practices for assembly and installation of Spider rigging equipment. Identification of proper usage and a site application. Setup and use of (primarily) electric traction and drum hoists. Includes assembly and application equipment. Additional information about setup and use or (primary) pneumatic traction and drum hoists, including weld protection and harsh conditions (Certification Period: Permanent).</p>
COR 1169C OSHA 10 - General Industry*	<p>Hour/s: 10</p> <p>This course will provide basic safety methods for preventing and managing fires. Lessons include fire safety basics and classes of fire and extinguishers. Employees have more control than they may realize over preventing fires in the workplace. For this reason, it is important for employees to know some basic safety methods for preventing fires and some basic techniques for managing a fire in case one breaks out. This course will reinforce your understanding of how to prevent and manage fires in the workplace (Certification Period: Permanent).</p> <p><i>With Spanish version in the LMS (SPN 1169C OSHA 10 - Industrial General*)</i></p> <p><i>NOTE: This course is provided by a third-party vendor. Upon enrollment, a fee of \$68.00 will be charged to the District Council training fund. See Third Party price list.</i></p>
COR 1170C PRO 10 Plus (6-hr) (CERTIFICATION)	<p>Hour/s: 6</p> <p>This class requires 6 additional hours of training on top of the OSHA 10 class. OSHA's four required sub parts and six elective sub parts - Based on 29 CFR 1910. It is required for all workers performing work in paper mills in Wisconsin (Certification Period: Permanent).</p> <p>Resource - www.pro-10mn.org</p>
COR 1171C Mine Safety Refresher (CERTIFICATION)	<p>Hour/s: 8</p> <p>Trained in the Line of Authority at the Mine, Introduction to a Mine Site, Emergency Procedures, Statutory Rights, Hazard Recognition and Avoidance, Reporting Hazards, Health and Safety Aspects of Assigned Tasks, Respiratory Protection and First Aid Methods (Certification Period: 12 months).</p>

COURSE	DESCRIPTION
COR 1172C Lead Silica (CERTIFICATION)	<p>Hour/s: 32</p> <p>This course provides an introduction to Lead and Silica. Topics are found below:</p> <ul style="list-style-type: none"> I. Introduction to Lead and Silica. II. Identification of Lead-Based Paint on Bridges III. Overview of Regulations and Employee Standard Summary IV. Health Effects and Symptoms Through Cross Contamination V. Engineering VI. Work Practices and Personal Hygiene VII. Personal Protective Equipment VIII. Compliance with Regulations through Written Programs IX. Exposure Assessment and Monitoring X. Record Keeping XI. Hands on Training & Exercise XII. OSHA Standard - General H&S XIII. Medical and Health Impact of Exposures to Paint XIV. Confined Space Entry and Introduction XV. Hazard Communication XVI. Respiratory Protection and Selection XVII. Lead and Silica Safety Checklist (Certification Period: Permanent).
COR 1173C Scaffold Awareness - Chicago Permitted (CERTIFICATION)	<p>Hour/s: 4</p> <p>This course provides an overview of the requirements for constructing and working on scaffolds specified in the Chicago Municipal Code section 13-34-040. This course also provides an introduction to the scaffolding safety requirements specified in 29 CFR 1926.451 and covers, at least, the potential hazards, including electricity, falls, falling objects, and safe work practices to protect you while working on a scaffold. Upon successful completion of this course, students will receive a completion certificate with photo ID valid for 4 years. (Certification Period: 48 months)</p> <p>Member Card Abbreviation: Scaffold Awareness - Chi Perm</p>
COR 1174C Lead/Heavy Metals and Respirator Refresher (CERTIFICATION)	<p>Hour/s: XX</p> <p>Exposed to lead on a non-residential work site; this includes bridges, refineries, and many other steel structures and a respirator course which covers respirator certification class, a medical evaluation and fit test (Certification Period: XX months).</p> <p>Member Card Abbreviation: Lead Heavy Metals & Resp Ref</p>

COURSE**DESCRIPTION****COR 1175C Disaster Response - CPWR (CERTIFICATION)**

Hour/s: 4

This is a dynamic interactive worker training program, developed by CPWR - The Center for Research and Training - to prepare skilled construction workers to support and adapt to a wide range of disaster situations. The training program prepares workers to recognize hazards, to use the right personal protective equipment and decontamination procedures, and how to fit into the Incident Command system.

COR 1176C Lead Abatement Vermont (CERTIFICATION)

Hour/s: 32

32-hour lead abatement course consistent with and approved by Vermont Department Regulations for Lead Control (VRLC) 9.336 (Certification Period: 24 months).

COR 1177C Suspended Scaffold - New York (CERTIFICATION)

Hour/s: 16

Class designed for the erection and use of suspended scaffolding specifically for in New York City (Certification Period: 48 months).

COR 1178C Entertainment Technician Certification Program (ETCP) (CERTIFICATION)

Hour/s: XX

Entertainment Technician Certification Program (ETCP) Rigging Certification (Certification Period: 60 months).

Member Card Abbreviation: ETCP

COR 1179C Massachusetts Aerial Lifts/Hoisting License (CERTIFICATION)

Hour/s: 8

Massachusetts hoisting license to operate forklifts (Certification Period: Permanent).

Member Card Abbreviation: Mass Aerial Lifts/Hoisting Lic

COR 1180C Massachusetts Class 1C Continuing Education (CERTIFICATION)

Hour/s: 4

1C cover telescoping booms without cables and forklifts. The course requires a 1A license. Students who possess 1C license specific to operate all-terrain telehandler i.e. Lull (Certification Period: 12 months).

Member Card Abbreviation: MA Class 1c Continuing Ed

COURSE	DESCRIPTION
COR 1181 Massachusetts Class 1C License Preparation	<p>Hour/s: 16</p> <p>1C cover telescoping booms without cables and forklifts. The course requires a 1A license. Students who possess 1C license specific to operate all-terrain telehandler i.e. Lull.</p>
183COR 1182C Massachusetts Class 1B Continuing Education (CERTIFICATION)	<p>Hour/s: 4</p> <p>1B covers telescoping booms with cables and cranes except for Derrick and Lattice Cranes. The course requires a 1A license. The 1B course is one grade higher than the 1C course (Certification Period: 12 months).</p> <p>Member Card Abbreviation: MA Class 1B Continuing Ed</p>
COR 1183 Massachusetts Class 1B License Preparation	<p>Hour/s: 16</p> <p>1B covers telescoping booms with cables and cranes except for Derrick and Lattice Cranes. The course requires a 1A license. The 1B course is one grade higher than the 1C course.</p>
COR 1184C Pulmonary Function Test (PFT) (CERTIFICATION)	<p>Hour/s: 1</p> <p>By generating a spirometry report and completing the OSHA questionnaire, a PFT will determine the eligibility of the user to wear a respirator. This program covers OSHA training requirements for respiratory protection in 29 CFR 1910.134 (Certification Period: 12 months).</p>
COR 1185 Lead Awareness 4-hour	<p>Hour/s: 4</p> <p>IUPAT (4-hour safety class), 1 year after Lead Abatement 8-hr class.</p> <p><i>NOTE: With Instructor and Student course codes.</i></p>
COR 1186 Lead Refresher 4-hour	<p>Hour/s: 4</p> <p>IUPAT (4-hour safety class), 1 year after Lead Abatement 8-hr class.</p>
COR 1187C Confined Space/Fall Protection/Lead Refresher (CERTIFICATION)	<p>Hour/s: 8</p> <p>This refresher course offered by DC 57 provides certification for the following courses: (a) Confined Space; (b) Fall Protection; and (c) Lead (Certification Period: 12 months).</p> <p>Member Card Abbreviation: Confined/Fall Prot/Lead Ref</p>

COURSE**DESCRIPTION****COR 1188 Safety Trained
Supervisor Construction (STSC)
Exam Prep***

Hour/s: 4

This Safety Trained Supervisor (STS) Construction Prep is an advanced online safety course for construction supervisors and managers who are preparing for the STS-Construction Exam. This course will help you prepare to pass the Safety Trained Supervisor certification examination. You will be introduced to the best methods used by construction supervisors to obtain world-class safety performance.

NOTE: This course is provided by a third-party vendor. Upon enrollment, a fee of \$53.00 will be charged to the District Council training fund. See [Third Party price list](#).

**COR 1189C Safety Trained
Supervisor Construction (STSC)
(CERTIFICATION)**

Hour/s: 4

Safety Trained Supervisor Construction (STSC) is a certification awarded by the Board of Certified Safety Professionals (BCSP) to frontline supervisors or project managers who are responsible for making safety decisions on construction sites. This certification validates safety knowledge, supervisory competence, and a technical confidence level. Some construction companies are dedicated to having all supervisors obtain the STSC certification.

Participation Eligibility - Training: 30 hours of formal training in safety, health and environment through one or multiple training courses. Work Experience: Will have two-year supervisory experience or four-year work experience (a minimum of part-time 18hrs/week) in construction (Certification Period: 60months).

Member Card Abbreviation: Safety Trained Supervisor Cons

**COR 1190C Lead/Heavy
Metals/Silica/Asbestos
Awareness (CERTIFICATION)**

Hour/s: 8

This 8-hour course is a required class for any member who will be exposed to lead on a non-residential work site; this includes bridges, refineries, and many other steel structures. Topics covered include hazard recognition, personal protection with emphasis on respiratory protection, health effects of overexposure, and waste removal. This class meets the requirements for first-time non-residential lead workers, and meets the annual refresher requirements mandated by OSHA (Certification Period: 12 months).

Member Card Abbreviation: Lead/Heavymetls/Silica/Asbests

COURSE	DESCRIPTION
COR 1191C Respirator Refresher & SAP (CERTIFICATION)	<p>Hour/s: 4</p> <p>This 4-hour course covers Respirator Training: This meets with OSHA minimum requirements under the Respirator Standard 29CFR 1910.134. It is comprehensive in that it not only provides instruction on the standard but is offered complete with medical evaluation and fit testing. Respirator testing (half and/or full). S.A.P. WORKER (Substance Abuse Program): This training is required for all employees covered under the Construction Industry Program. The training includes instruction on the dangers of substance abuse in the workplace, types of and procedures for testing, and the disciplinary policy associated with positive testing (Certification Period: 12 months).</p>
COR 1192C California OSHA 10-Hour Construction*	<p>Hour/s: 10</p> <p>The California OSHA 10-Hour Construction online safety course is specially designed to help keep California workers safe while obtaining their OSHA 10-Hour Card. This online training course teaches recognition, avoidance, abatement and prevention of safety and health hazards in workplaces. This program also provides information regarding workers' rights, employer responsibilities and how to file a complaint. It was also designed to help individuals stay up-to-date with their OSHA safety requirements (Certification Period: Permanent).</p> <p><i>NOTE: This course is provided by a third-party vendor. Upon enrollment, a fee of \$72.00 will be charged to the District Council training fund. See Third Party price list.</i></p>
COR 1193C OSHA 10 Road Construction*	<p>Hour/s: 10</p> <p>OSHA 10-Hour Road Construction is an online safety course that was developed to provide road construction crews with the knowledge they need to stay safe on the job site. ClickSafety's OSHA 10-Hour courses have been developed by experts in OSHA safety and taken by thousands of workers. Our OSHA 10-Hour Road Construction online course is simply the fastest, easiest way to complete your training and earn your OSHA 10-Hour Card (Certification Period: Permanent).</p> <p><i>NOTE: This course is provided by a third-party vendor. Upon enrollment, a fee of \$68.00 will be charged to the District Council training fund. See Third Party price list.</i></p>

COURSE**DESCRIPTION****COR 1194C OVERTON
AerScisForklift REFRESH
(CERTIFICATION)**

Hour/s: 1

Refresher course given via Webinar by Overton Safety Training, Inc. for Aerial & Scissor Lift and Construction Forklift Trainer. Overton's Aerial and Scissor Lift safety program covers laws and standards related to aerial lift operation, daily lift and area inspection, stability, key components, fall protection requirements and use, traveling, refueling/recharging, platforms/buckets, gates, understanding capacity charts, and dealing with wind and electrical hazards (Certification Period: Permanent).

**COR 1195C Industrial
Construction Forklift
(CERTIFICATION)**

Hour/s: 8

This is an 8-hour Class 7 – Telehandler certification course, which will address laws and regulations, stability principles, pre-operational inspection procedures, safe operating practices, and evaluating competency. There is a written test along with a hands-on operating test. (Certification Period: 36 months).

Member Card Abbreviation: Industrial Const Forklift

**COR 1196C Industrial
Construction Forklift Refresher
(CERTIFICATION)**

Hour/s: 4

This 4-hour class is a refresher of the basic safety for the Industrial Construction Forklift Class 7 – Telehandler certification card. Class covers laws and regulations, stability principles, pre-operational inspection procedures, safe operating practices, and evaluating competency. It consists of classroom and a hands-on assessment. Prerequisite is a Gradeall / Industrial Forklift card from a participating IUPAT training center that is within 6 months of expiration (Certification Period: 36 months).

Member Card Abbreviation: Industrial Const Forklift Ref

**COR 1197 Fall Protection
Awareness***

Hour/s: 4

This is a 4-hour class. Falls are the second leading cause of death in the workplace. With the proper training and equipment, those deaths from falling could have been prevented. The objective of this Summit program, "Fall Protection: Taking Control," is to train your employees to recognize potential fall hazards in their work place and provide them with an understanding of the proper use and care of personal fall protection equipment, with an emphasis fall arrest systems. The program also discusses the importance of a pro-active safety attitude in preventing work place falls. It is an awareness course only.

With SPN version in the LMS (SPN 1197 Concientizacion Sobre la Proteccion Contra Caidas)*
With French version in the LMS (FRE 1197 Glisser trebucher et chuter)*

COURSE

DESCRIPTION

COR 1198C EPA Model Asbestos Abatement Worker Refresher (8-Hour) (CERTIFICATION)

Hour/s: 8

This OSHA- and state-required course is designed to update and refresh workers' knowledge of safe methods of asbestos abatement. As with other refresher courses, this training emphasizes updates in regulations, technology, and work practices; industry trends; deepening knowledge in specific areas; and refreshing the basic knowledge of asbestos abatement. The curriculum is updated each year to include the newest developments and trends in the field (Certification Period: 12 months).

Member Card Abbreviation: Asbestos Abatement Worker Ref

COR 1199C EPA Model Asbestos Abatement Contractor/Supervisor (40- Hour) (CERTIFICATION)

Hour/s: 40

This course includes all of the topics in the 32-hour Asbestos Abatement Worker course* and is designed to prepare supervisors to effectively manage equipment, personnel, and safety at an asbestos abatement site. Topics include supervisory techniques, record keeping, contract specifications, supervisor's responsibilities in respiratory and medical surveillance programs, sampling and analytical methodology, personal protective equipment, and insurance and liability issues (Certification Period: 12 months).

Member Card Abbreviation: Asbestos Abatmnt Contractr/Sup



Leadership and Professional Development

COURSE

DESCRIPTION

COR 1200C Communication Skills (CERTIFICATION)

Hour/s: 4

This course will focus mainly on the spoken word. Objectives include identifying elements of verbal and non-verbal communication; defining the basic communication process and common barriers to communicating effectively; identifying personality types and how to work with each; identifying good listening skills, strategies for resolving conflicts, and the importance of supporting a sexual harassment free work environment (Certification Period: Permanent).

COR 1201 Foreman Training

Hour/s: 2

This course will review the role of a foreman in maintaining safety and maintenance standards on the job. Establishes the role of a foreman in maintaining safety and maintenance standards on the job. The students will learn the importance of properly performing personnel functions in accordance with union agreements and company policies while creating and maintaining open communication and working relationships with coworkers, supervisors and other tradesmen.

COR 1202 Supervisor Training Program (STP)

Hour/s: 20

This program is designed to strengthen the abilities of project supervisors at all levels. It is appropriate for newer supervisors/foremen to broaden their understanding of the responsibilities of their job and to provide tools and techniques to better fulfill those responsibilities. It is appropriate for experienced supervisors to update their understanding of supervision, to strengthen their skills in traditional areas, and to develop new skills in emerging areas. The program is designed for considerable interaction among Students, encouraging them to learn from one another. It provides ample opportunities for large and small group interactions, as well as practice of skills important to the supervisors. The course is open to all field supervisors, foremen and those who anticipate fulfilling these roles in the near future. A management representative of the employer is encouraged to attend the course along with their sponsored employees (Certification Period: Permanent).

COR 1203C Project Management (CERTIFICATION)

Hour/s: 20

This course enables the Project Managers to manage the projects like a business by making decisions that positively impact the project goals to benefit the signatory contractors of the IUPAT (Certification Period: Permanent).



COURSE**DESCRIPTION****COR 1204 Supervisor
Training Program II****Hour/s: ?**

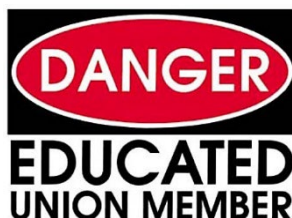
This program is designed to strengthen the abilities of project supervisors at all levels. It is appropriate for newer supervisors/foremen to broaden their understanding of the responsibilities of their job and to provide tools and techniques to better fulfill those responsibilities. It is appropriate for experienced supervisors to update their understanding of supervision, to strengthen their skills in traditional areas, and to develop new skills in emerging areas. The program is designed for considerable interaction among Students, encouraging them to learn from one another. It provides ample opportunities for large and small group interactions, as well as practice of skills important to the supervisors. The course is open to all field supervisors, foremen and those who anticipate fulfilling these roles in the near future. A management representative of the employer is encouraged to attend the course along with their sponsored employees.

**COR 1205I Steward Training
(Instructor Access)****Hour/s: 4****COR 1205S Steward Training
(Student Access)**

This Top Workplace Performance (TWP) Steward training program is designed to promote the Finishing Trades Industry through effective communication, understanding the Collective Bargaining Agreement, trust, one-on one mentoring, jobsite problem solving, and industry professionalism, along with jobsite productivity. This course will explain the role that Labor/Management plays in following the TWP plan set forth by the IUPAT and affiliated partners of the Finishing Trades Industry. The TWP Steward training course will demonstrate that Labor and Management play an equal part in the evaluation of employees' jobsite conduct, work quality, attitude, and skill level. Case scenarios are used during this course to give the students the opportunity to solve jobsite problems within a classroom setting.

COR 1206 COMET I**Hour/s: 4**

COMET is an educational forum by which union members are reminded of the need for organizing the workforce. It is necessary for the union membership to understand why organizing is the most essential ingredient in controlling construction work within their jurisdiction. It is more important to understand the positive impact that organizing will have on all workers.



COURSE**DESCRIPTION****COR 1207 COMET II**

Hour/s: 4

This is a continuation of the COMET I course. COMET is an educational forum by which union members are reminded of the need for organizing the workforce. It is necessary for the union membership to understand why organizing is the most essential ingredient in controlling construction work within their jurisdiction. It is more important to understand the positive impact that organizing will have on all workers.

COR 1208 The Effective Manager*

Hour/s: 2.5

Effective Performance Feedback - Providing effective performance feedback is an important part of your role as a manager. This e-learning module will give you an understanding of the importance of performance feedback. Informal performance feedback is provided on an ongoing basis. A more formal process is the annual performance review. We will outline the stages of a performance review, and show you video clips of performance reviews in action. Finally, we will provide you with strategies for ensuring that your feedback is constructive and effective.

Effective Approaches to Employee Discipline - Doing Performance Reviews

COR 1209 Mentoring for Journeymen

Hour/s: 4

In this course, the journeyman will learn how to effectively transfer their technical knowledge, trade skills, and workplace behavior to the apprentice.

COR 1210 Lean Program (CERTIFICATION)

Hour/s: 5

Training for scheduling efficiently on the job site (Certification Period: Permanent.)

COR 1211C Foundation for Safety Leadership (CERTIFICATION)

Hour/s: 4

This course is designed to introduce students to a number of critical and useful safety leadership principle and skills to improve the safety climate and safety outcomes on jobsites (Certification Period: Permanent.)

Member Card Abbreviation: FoundationforSafetyLeadership

COR 1212 Supervisor Training Program II Refresher

Hour/s: 8

This is a refresher course for the Supervisor Training Program (COR 1204).

COURSE

DESCRIPTION

COR 1213 Not Yet Assigned

Hour/s: X

COR 1214 Goal Setting*

Hour/s: 3.5



The only way to accomplish a goal is to take total ownership of it. This course will teach you different methods of turning a goal into your own, ranging from understanding the nature of doubt, preventing sabotage by the subconscious, to adopting new types of positive behaviors such as role playing. Using these techniques, you will learn how to become a successful goal setter and achiever.

The topics include Individual Goal Personalization, Individual Goal Setting, Individual Goals and Challenges, and Strategies for Achieving Goals.

COR 1215 Not Yet Assigned

Hour/s: X

COR 1216 Time Management*

Hour/s: 4

This course addresses the nuts and bolts of time management and includes tools for setting goals, keeping logs, and planning your time. It includes methods for identifying low pay-off activities and time-wasters, along with suggestions for getting rid of them. It provides tips for organizing your materials and your surroundings for more efficiency, and has other practical suggestions for taking control of your time and your life with simple, tried-and-true tools and techniques.

COR 1217 Business Communications*

Hour/s: 8

In the corporate world, it's estimated most individuals spend at least five to six hours a week in meetings. Calculate those hours in dollars and you can see that meetings are a significant investment. To make the most of our time, we all want the meetings we attend to be productive. In this module, you will explore why meetings are often not as productive as they could or should be, and you will learn some techniques for improving them. If you can incorporate these suggestions into your meetings, it will help your staff stay focused and ensure that they feel appreciated and energized.

*With French version - FRE 1217 Communications Commerciales**

*With Spanish version - SPN 1217 Comunicaciones de Negocios**

COURSE	DESCRIPTION
COR 1218 Business Writing*	<p>Hour/s: 3</p> <p>The course has the following lessons: Business Writing: Being Effective, Business Writing: Preparation, and Business Writing: Reports and Proposals.</p>
COR 1219-1220 Not Yet Assigned	<p>Hour/s: X</p> <p>XXX</p>
COR 1221 Delegation*	<p>Hour/s: 2</p> <p>Effective delegation is a strategic tool that leaders use to save time, enhance the morale of workers, and develop junior employees by placing authority in their hands. In this course, you will explore the delegation process, learn to overcome barriers to delegation and give effective feedback. You will learn to apply this powerful tool for the benefit of your organization.</p>
COR 1222C NABTU Trainer Enhancement (CERTIFICATION)	<p>Hour/s: 24</p> <p>The annual Trainer Enhancement course offered by CPWR for NABTU includes 3 hours of instructional development and 14 hours of safety and health training. Topics change annually (Certification Period: Permanent).</p>
COR 1223 Clear Communication*	<p>Hour/s: 2.5</p> <p>This course presents how to communicate persuasively, proactively, and reactively.</p>
COR 1224 Not Yet Assigned	<p>Hour/s: X</p>
COR 1225 Communication & Leadership*	<p>Hour/s: 5</p> <p>This course teaches the basics of communication and leadership. The communication portion of the course focuses on the different modes and styles of communication, and how you can use this information to better communicate with a variety of people. The leadership portion of this course will help managers become better leaders by teaching them different leadership techniques, and when to use them. It also teaches managers how to determine what motivates employees, and how to build teams. This course includes a multiple choice quiz at the end of each section.</p>
COR 1226-1230 Not Yet Assigned	<p>Hour/s: X</p> <p>XXX</p>

COURSE	DESCRIPTION
COR 1231 Business Essentials*	<p>Hour/s: 1.5</p> <p>The course offers the fundamentals of corporate finance, change management in the workplace, and discrimination in the workplace.</p>
COR 1232 Coaching for Better Performance*	<p>Hour/s: 1</p> <p>This course teaches effective coaching techniques, and enables you to help employees improve their work performance through a clearer sense of performance objectives and renewed motivation. You will learn specific and practical suggestions for diagnosing performance problems, understand appropriate actions based on the diagnosis, and be able to implement the coaching process in an effective manner.</p>
COR 1233 Project Management: The Basics*	<p>Hour/s: 4</p> <p>This course is designed to introduce and define project management terminology and to present the boundaries and basic responsibilities of all individuals involved in the project management process. You will learn to establish objectives, manage stakeholder expectations, and detail project feasibility. This course also helps you identify and manage project risks.</p>
COR 1234-1235 Not Yet Assigned	<p>Hour/s: X</p>
COR 1236 Dealing with Conflict*	<p>Hour/s: 1.25</p> <p>As long as you are in business you will have customer complaints - they never end. Your ability to acquire and retain customers is vital to your organization's long-term success. This 1-hour interactive online course provides you with useful tools to help turn unhappy customers into loyal customers. A customer relations self-evaluation which will give insight into how well your business is doing with regards to customer service is also available.</p>

COURSE**DESCRIPTION****COR 1237 Parenting Skills***

Hour/s: .5

Those of us who have children know that parenting is one of the most important jobs we will ever do. For many of us, it is also one of our most challenging jobs. And for most of us, it is not something that we are born knowing how to do. In fact, good parenting is something we learn on the job, by trial and error, by sharing our experiences, and consulting experts in various fields, with the understanding that there is no manual, no magic formula, and no one right way to raise children. In this module we will share strategies for effective parenting. Because our goal as parents is to help our children become healthy, happy, fully-functioning human beings, our focus will be on the importance of developing healthy self esteem.

COR 1238 Leadership for Managers and Supervisors*

Hour/s: 1

Using Leadership Basics provides the fundamental skills for leading a group: defining the task, establishing a vision, gaining commitment, and building relationships. It tells you how and when to use various leadership styles and gives smart techniques to help leaders direct the efforts of others. The Strategies and Tips in this module teach you how to foster innovation, provide appropriate direction, and develop and maintain positive relationships.

COR 1239 Not Yet Assigned

Hour/s: X

XXXX

COR 1240 Employee Motivation*

Hour/s: 1

The difference between a business just surviving and a thriving one is the energy and commitment of its people. A motivated and dedicated workforce is the formula for long term success. This course gives practical suggestions for identifying group and individual motivating factors and mobilizing them to energize employees. There are tools, techniques, and methods for revitalizing the workplace and encouraging initiative in each person in order to move everyone forward.

COURSE

DESCRIPTION

COR 1241 Managing Your Career Path*

Hour/s: 3

Resumes are invaluable tools in the job search process. Career planning is a process that requires candid assessment of your accomplishments, goals, talents and most importantly, your future plans. The course focuses on self-analysis and assists in career planning, whether you want to find a new job, make a lateral move, get a promotion or change careers within the same company. The material covers what you want to do, where you want to do it, financial issues and more. The course includes Business Etiquette and Networking lessons.

*With French version - FRE 1241 La Gestion de Votre Cheminement de Carrière**

COR 1242-1243 Not Yet Assigned

Hour/s: X

XXXX

COR 1244 Role of the New Supervisor*

Hour/s: 2

This course was designed to help new supervisors address with confidence the challenges of managing their former co-workers. The course presents three key strategies for making the transition from peer to supervisor, stresses the importance of effective communication, and explores three management responsibilities, ie. delegating, coaching and discipline, that may be especially demanding for new supervisors in their new role.

COR 1245 Customer Service*

Hour/s: 5

Good customer relations are a key success factor in any business. This module will help you discover the advantages to you and your customers of reaching out to each other and communicating openly. You will examine issues such as rapport and trust, and identify what clients want in terms of communication.

*With French version in the LMS FRE 1245 Service a la Clientele**

COR 1246-1247 Not Yet Assigned

Hour/s: X

XXX

COR 1248 Problem Solving*

Hour/s: 2

Problem-solving as a team can lead to exceptional results - or it can be a disaster! As a team leader, you have the responsibility to make sure your team finds the best solution. Learn the strategies and tips that will get you there.

*With French version FRE 1228 Resolution de Probleme**

COURSE

DESCRIPTION

COR 1249 Healthy Workplace Culture*

Hour/s: 2.5

What is a healthy workplace? You might think it is one in which the physical environment is safe for all employees or one in which there is a level of overall health among the employees. And you'd be right. However, there is another less obvious but equally critical meaning of the term healthy workplace. The course promotes a healthy workplace culture, managing workplace culture by working well with others, and acting effectively on a team.

With French version in the LMS (FRE 1249 Une Culture d'Entreprise Saine)*

COR 1250 Mentoring for Apprentices

Hour/s: 4

Technical training instructors recognize the importance of effectively transferring skills from one generation to the next. They learn how to contribute to the success of the apprentice-mentor relationship. Beginning apprentices will be aware of taking responsibility for their own learning. More experienced apprentices learn to pass a new skill or set of skills to a less experienced apprentice.

COR 1251 Anger Management*

Hour/s: 1

This course is designed to describe the essentials of managing anger in an appropriate and constructive manner. While designed specifically for the work environment, the core elements of this training can be applied when you are at home or on the road. The constant pressures and stresses of modern life have resulted in a growing realization that anger control methods should be taught. Rage and violence in the workplace are no longer rare occurrences. While anger is a normal human emotion, the prevalence of toxic anger is dangerous to us all. This course teaches us how to effectively manage anger in all its forms.

COR 1252 Safe Driving*

Hour/s: 2.6

The Safe Driving course is designed to assist drivers of all ages to understand many of the factors which can help ensure a safe driving experience in most circumstances. In this four-part program, you will learn key information that, as a driver, you must know and follow to keep yourself, family members, co-workers, and the public safe.

With Canadian version in the LMS (CAN 1252 - Safe Driving (Canada))*

With French version in the LMS (FRE 1252 Conduite sécuritaire)*

COURSE

DESCRIPTION

COR 1253C California Supervisor Harassment Prevention (AB1825) (CERTIFICATION)*



California AB 1825 Compliance

Hour/s: 2

Sexual harassment and other forms of illegal discrimination are damaging to organizations, employees and society at large. This training will give employers and supervisors in California a greater understanding of harassment and illegal discrimination, how they can be prevented, and the processes to follow when a complaint is made. This course is AB1825 compliant. (Certification Period: 24 months).

With Spanish version in the LMS (SPN 1253C Supervisores (Californis) - Prevencion del acoso para los supervisores de California (cumple con AB1825) (CERTIFICATION) and SPN 1254 Empleados (California) - Prevencion del acoso para los empleados de California (cumple con SB1343)*)*

COR 1254 California Employee Harassment Prevention (SB1343)*

Hour/s: 3

Sexual harassment and other forms of illegal discrimination are damaging to organizations, employees and society at large. This training will give employees in California a greater understanding of harassment and illegal discrimination, how they can be prevented, and the processes to follow when a complaint is made.

COR 1255 Connecticut Harassment Prevention*

Hour/s: 2

This Harassment Prevention Training [Connecticut] online training course is designed for all Connecticut employers and employees (including supervisors). Sexual harassment and other forms of illegal discrimination are damaging to organizations, employees, and society at large. This training will give employers, supervisors, and employees in Connecticut a greater understanding of harassment and illegal discrimination, how they can be prevented, and the processes to follow when a complaint is made.

*Spanish Version - SPN 1255 Prevencion del Acoso (Connecticut)**

COR 1256 Union Meeting

Hour/s: 2

Classroom training for two hours, paper work, work reports, and turn-in books.

COR 1257 Office Safety*

Hour/s: 0.8

Each year, an estimated 40,000 workers receive disabling injuries from office accidents. This course will help you reduce the risk of injury by showing you how to manage common office hazards.

With French version in the LMS (FRE 1257 La securite au bureau)*

COURSE**DESCRIPTION**

COR 1258 Non Trade-specific Training Hour/s: X

COR 1259 Coping with Change*

Hour/s: 1

This course is designed to help you, as an employee or manager, to contribute more effectively to your team by utilizing strategies and tips on coping with change. The techniques will make it easier to cope with change in many workplace situations, including identifying your own reactions as well as those you may manage.

COR 1260 Managing Stress*

Hour/s: 3.5

There are many effective strategies for coping with stress. Some will give you temporary relief, while others can be integrated into your lifestyle in order to give you long term relief. Lifestyle strategies for managing stress can be divided into three major categories: physical activity, nutrition and relaxation. In this module, we will look at the importance of physical activity and good nutrition in managing the negative effects of stress.

COR 1261 Effective Leadership*

Hour/s: 6

In today's workplace, it's not enough just to manage. Organizations are looking for leaders. Becoming an effective leader takes insight into the things that motivate employees to give their best. It also takes skill in handling the challenges of interpersonal conflict and negativity. It takes coaching skills too. An effective leader knows how to mentor employees as they take on new projects and strive to grow professionally. In this module you'll have an opportunity to explore these essential leadership skills.

COR 1262 Individual Priority Management*

Hour/s: .83

People in every walk of life face recurring demands, information overload, increased workloads, and have family and/or community responsibilities and their own personal expectations of what they want for their job, career or family. Busy people need to prioritize. Prioritizing can help in every facet of life. This course will teach you how to use a priority process to achieve meaningful personal and career goals. It also provides numerous techniques and tips that will make priority management a key to successful accomplishments.

COURSE**DESCRIPTION****COR 1263 Individual Productivity Enhancement***

Hour/s: 2

Productivity is the key to career success. In challenging and competitive times, companies look to their employees to accomplish needed tasks and assure the organization's viability. If companies downsize, the jobs of the most productive employees are secure. When companies decide to promote employees, those with a track record for accomplishing the important work of the organization are often considered for advancement. This course teaches time and task management skills that will make you more valuable to your company and more productive in your personal life.

COR 1264 Mind Your Mood*

Hour/s: 1.5

Mind Your Mood - Mind Your Mood is a course that has been created specifically to help you assess and manage your mood.

Conquer Your Anxiety - Conquer Your Anxiety has been created specifically to help you assess and conquer your anxiety.

COR 1265 Change Management*

Hour/s: .75

Effective leaders know how to develop change-friendly companies. It's the only way to survive.

COR 1266 Mental Health Awareness*

Hour/s: 1.5

Mental health includes our emotional, psychological, and social well-being. It affects how we think, feel, and act. It also helps determine how we handle stress, relate to others, and make choices. Mental health is important at every stage of life, from childhood and adolescence through adulthood.

COR 1267 Creativity and Innovation in the Workplace*

Hour/s: 1.5

It's something that many employers overlook, but creativity is a workplace skill that can yield surprising dividends when it is valued and encouraged within an organization. But what is creativity exactly? How do we define it and can anyone become more creative? This module explores some of the psychology behind creativity and offers techniques for fostering creativity in yourself and others.

COURSE**DESCRIPTION****COR 1268 Self Esteem***

Hour/s: .5

Winners are too busy to be sad, too positive to be doubtful, too optimistic to be fearful, and too determined to be defeated. What does it take to be a winner? The answer is self esteem. Self esteem gives you confidence in yourself and your abilities. You may succeed or you may fail, but you know that you are a worthy person. Self esteem also has a powerful effect on the way we relate to others. In this module we will look at what self esteem is and where it comes from. We will talk about the key role that self image plays in the development of self esteem. And we will give you tips for building your own self esteem and contributing to the self esteem of those around you.

COR 1269 Diversity in the Workplace*

Hour/s: 1

This course is designed to raise employee awareness about demographic changes and the benefits of diverse teams in the workplace. The course teaches employees about the science of unconscious bias, how to recognize and resolve it and move toward an inclusive work culture.

COR 1270 Unconscious Bias*

Hour/s: 1

Unconscious bias (or implicit bias) refers to unsupported social judgments or prejudice in favor or against a person or group of people. Since these happen without reasonable justification, they can prevent one's judgment from being balanced. This course will explain unconscious bias, the impact it has on the workplace, and the steps you can take to manage it and encourage diversity and inclusivity.

COR 1271 Managing Anxiety During a Pandemic*

Hour/s: .5

The COVID-19 pandemic is a period of extreme uncertainty. In times like these, people have heightened levels of anxiety. They have so many questions to which there are no definite answers. This course examines the causes and symptoms of anxiety. It also explores strategies that can be used to manage and alleviate anxiety.

COURSE**DESCRIPTION****COR 1272 Returning to the Workplace During a Pandemic**

Hous/s: .5

This course takes a look at the health and safety protocols that need to be put in place to ensure that workplaces are safe when employees return to work. The course identifies the elements that need to be in place to ensure a safe workplace, reviews the responsibilities and rights of employers, supervisors, and employees, lists effective controls that can be used to reduce exposure and mitigate risk, and outlines the health and safety guidelines for different sectors.

COR 1273 Peer Support

Hous/s: 20

The IUPAT's Peer Support program is a 2-1/2-day education and training workshop that will include information, discussions and activities pertaining to the impact of substance use and mental illness on the brain, suicide prevention, your role as a peer supporter, ethics and confidentiality, employee assistance programs (EAP's) and more. The Peer Supporter is committed to learning about mental health and substance use disorders to help their peers and will be part of a network of Peer Supporters within the IUPAT Helping Hand.

COR 1274-1299 Not Yet Assigned

Hour/s: X

XXX

COR 5305 Procore Construction Project Management Tools

Hous/s: 16

This Procore training is designed to assist those who are interested in teaching aspects of Procore in their training classes to apprentices and journeymen. This course covers our Project Management tools including drawings, specs, RFI, and our safety tools that may be required by a tradesperson using Procore. This training will cover classroom resources we've built for instructors, and includes questions and answer time that will allow for attendee specific questions as needed.



Coating Application Specialist (CAS)

O*NET-SOCCODE: 47-2141.00

RAPIDS CODE: 2009HY

Also known as:

Painting-Industrial, Industrial Painter, Industrial Coating and Lining Application Specialist (ICLAS), and Coating Applicator

Course Competencies

The Program level curriculum builds upon the foundation of the core curriculum skills, knowledge, and abilities. At the program level, craft-specific standardized curriculum is designed by an ad-hoc committee comprised of the iFTI Curriculum Department, IUPAT/iFTI subject matter experts, employers, manufacturers, and associations.

Apprentices will be assessed on their acquisition of knowledge, skills and abilities in the core curriculum through hands-on and written tests as well as On-the-Job Learning (OJL) performance measures.

Additionally, the apprentices will integrate their core knowledge, skills and abilities into the pursuit of specific craft training throughout the term of their apprenticeship. This program specific training is designed to build the technical and professional skills needed by the crafts person to successfully perform his or her trade profession.

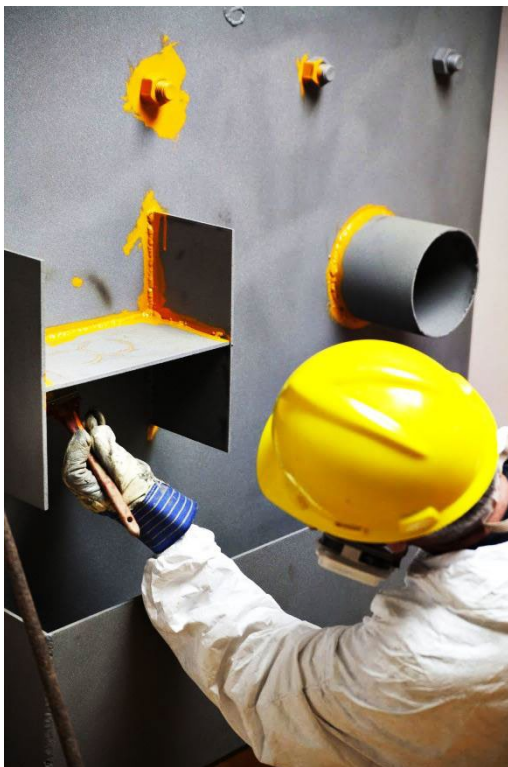
Apprenticeship Program

The Industrial Coating and Lining Application Specialist Apprenticeship Program is co-sponsored by the IUPAT/iFTI to meet the ever-changing needs of the industry and the affiliates it serves. The apprenticeship program ensures that students will learn the theoretical knowledge and the practical skills necessary to become a certified Industrial Coating and Lining Application Specialist. During this program of study, students will successfully complete the IUPAT/iFTI core curriculum and integrate it into the Industrial Coating and Lining Application Specialist craft specific training. Students successfully completing this program apply their skills and abilities as Industrial Coating and Lining Application Specialist.

Description of Occupation

Painters, Industrial Coating and Lining Application Specialists apply techniques to prepare substrates for coating and lining application. Techniques may include removal of rust, mill scale and previously applied hazardous coatings utilizing industry-specific tools and techniques.

Industrial Coating and Lining Application Specialists apply/install protective coatings and linings to steel and concrete on complex structures, such as bridges and towers; waterfront structures, such as locks and dam, ship hulls, offshore platforms, bulkheads, and piers; metal and manufacturing facilities; chemical and processing facilities (e.g. food processing; pulp and paper mills; food and beverage plants; water and wastewater processing facilities); and conventional and nuclear power generation facilities.



By the nature of their work, Industrial Coating and Lining Application Specialists often work in dangerous environments such as bridges high over waterways, other highways or railroads, or in confined spaces such as shipboard spaces, small vessels or storage tanks. Because of this, Industrial Coating and Lining Application Specialists are required to receive more specialized training in health and safety due to the hazards associated with their work. See Attached SSPC Guide 17.

In today's environmentally-conscious culture, the Industrial Coating and Lining Application Specialist must also be careful to protect the environment surrounding the work site to ensure that hazardous debris such as lead-based paint and abrasive blasting media is properly contained and disposed of according



to stringent federal, state and local regulations. This often requires the rigging of intricate containment systems and work platforms.

Students will learn to apply their theoretical knowledge and skills to the corrosion protection of steel and concrete on complex industrial structures through course work in Health and Safety Awareness for Application Specialists, surface preparation and coating materials properties, and application. Specialty application course work in plural component and thermal spray will further assist students in expanding their skills. Students will have their capabilities verified thru the IUPAT/FTI Industrial Coating and Lining Application Specialist Certification Program.

The objective of the Certification Program is to determine, through proctored written and practical examination, whether an individual craft worker has the skill and knowledge to perform quality surface preparation and protective coatings application. The ICLAS program meets this need and provides criteria for the education, training, experience, knowledge, and motor skills required to prepare and apply protective coatings to steel and concrete surfaces of complex industrial and marine structures.

This training and certification have been designed to meet the requirements for a Level II certified Coating and Lining Application Specialist set forth in the Body of Knowledge contained within the SSPC ACS 1/AMPP No.13 Joint Standard and in accordance with ISO 17024.

Students shall be required to maintain their Qualifications per the requirements set forth in the SSPC ACS 1/AMPP No.13 Joint Standard.



Program Level Competencies

With reference to each of the respective areas of the Industrial Coating and Lining Application Specialist trade, apprentices successfully completing this program will be able to:

- ✓ Identify types of corrosion and select coatings that meet project demands in various conditions and service environments.
- ✓ Apply proper surface preparation techniques to achieve the maximum level of protection available through protective coatings systems.
- ✓ Create a surface that meets industry standards defining an achievable surface cleanliness level.
- ✓ Demonstrate the ability to apply a coating properly through spray application; and troubleshoot spray pattern problems.
- ✓ Recognize job site deviations and nonconformities and identify how they may be addressed.
- ✓ Describe the requirements for writing and following written procedures and the difference between quality control and quality assurance.

Suggested Program of Study

The IUPAT/iFTI Program of Study for the Painter, Industrial Coating and Lining Application Specialist OJL and Related Instruction (RI) is outlined below. Under this hybrid occupation, an apprentice must participate in the indicated minimum number of hours of OJL for each category of the program. The Program Sponsor is responsible for determining the number of RI hours that an apprentice must participate in based on the iFTI guidance, local needs, and the mandated minimum of 144 hours per year (29 CFR 29.5(b)(4)).

CATEGORY #	CATEGORY NAME	OJL HOURS	RI HOURS
1.0-3.0	Core Curriculum	32	96
4.01	Health and Safety Awareness for the Industrial Coating and Lining Application Specialist	300 - 500	40
4.02	Introduction to Industrial Coatings	350 - 450	32
4.03	Materials and Corrosion	600 - 800	40
4.04	Surface Preparation	850 - 950	60
4.05	Spray Applications	600 - 850	92
4.06	Coatings	1000 - 1200	96
4.07	Specialty Applications	650 - 850	80
4.08	Contractor Quality Management	250 - 400	40
		4632- 6032	576

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
4.01	CAS	2000-2099	Health and Safety for the Industrial Coating and Lining Application Specialist	300 - 500	40
			Course Code and Course Name	Hours	Months Valid
			CAS 2000 Health and Safety	40	N/A
			CAS 2001 Bridge Rigging	8	N/A
			CAS 2002 Health and Safety II	8	N/A
			CAS 2003 Not Yet Assigned		N/A
			CAS 2004 Bridge Awareness	16	N/A
			CAS 2005C Quickdeck Level 2 Installer (CERTIFICATION)	8	Permanent
			CAS 2006C SPRAT Rope Access Training Level 1 (CERTIFICATION)	40	Permanent
			CAS 2007-2012 Not Yet Assigned		
			CAS 2013 Industrial Applicator	4	N/A
			CAS 2014C AMPP Certified Coating Applicator (CERTIFICATION)	7.5	36
			CAS 2015C GWO Working at Height (CERTIFICATION)	14	24
			CAS 2016C GWO Sea Survival Training for Offshore Wind (CERTIFICATION)	7	24
			CAS 2017C GWO Safety Training Fire Awareness (CERTIFICATION)	4	24
			CAS 2018C GWO First Aid - Trauma at Height (CERTIFICATION)	16	24
			CAS 2019C GWO Manual Handling (CERTIFICATION)	4	24
			CAS 2020C Huet for Offshore Wind (CERTIFICATION)	7	Permanent
			CAS 2021C GWO Basic Safety Training Refresher (CERTIFICATION)	24	24
			CAS 2022-2099 Not Yet Assigned		
4.02	CAS	2100-2299	Introduction to Industrial Coatings	350 - 450	32
			Course Code and Course Name	Hours	Months Valid
			CAS 2100 Introduction to Industrial Coatings	32	N/A
			CAS 2101 Coating Application Specialist (CAS) Examination Preparation	8	N/A
			CAS 2102 CAS Special Topics	40	N/A
			CAS 2103C SSPC Coating Application Specialist (CAS) (CERTIFICATION)	4	36
			CAS 2104C Industrial Refresher (CERTIFICATION)	8	12
			CAS 2105C CAS Level I (CERTIFICATION)	1.5	Permanent
			CAS 2106C CAS Level II Interim (CERTIFICATION)	16	36
			CAS 2107C CAS Level II Full (CERTIFICATION)	16	36

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
4.02	CAS	2100-2299	Introduction to Industrial Coatings	350 - 450	32
			Course Code and Course Name	Hours	Months Valid
			CAS 2108C CAS Level II Renewal (CERTIFICATION)	3	36
			CAS 2109 CAS Operator Volunteer	8	N/A
			CAS 2110 CAS Expo	8	N/A
			CAS 2111 CAS Level II Interim Exam Prep	16	N/A
			CAS 2112C AMPP CCA (CERTIFICATION)	8	36
			CAS 2113C AMMP CCAS (Concrete Coating Applicator Specialist) (CERTIFICATION)	32	24
			CAS 2114-2199 Not Yet Assigned		
4.03	CAS	2200-2299	Materials and Corrosion	600 - 800	40
			Course Code and Course Name	Hours	Months Valid
			CAS 2200 Introduction to Corrosion Theory and Control	40	N/A
			CAS 2201-2299 Not Yet Assigned		
4.04	CAS	2300-2399	Surface Preparation	850 - 950	60
			Course Code and Course Name	Hours	Months Valid
			CAS 2300 Introduction to Surface Preparation	12	N/A
			CAS 2301 Ambient Conditions	12	N/A
			CAS 2302 Nozzle Blasting Systems	12	N/A
			CAS 2303 Abrasives	12	N/A
			CAS 2304 Portable Wheel Blast Equipment	12	N/A
			CAS 2305 -2311 Not Yet Assigned		
			CAS 2312 Introduction to Blasting	4	N/A
			CAS 2313 -2399 Not Yet Assigned		
4.05	CAS	2400-2499	Spray Applications	600 - 850	92
			Course Code and Course Name	Hours	Months Valid
			CAS 2400 Introduction to Spray Applications	12	N/A
			CAS 2401 Mixing and Thinning	16	N/A
			CAS 2402 Conventional Spray Application	16	N/A
			CAS 2403 Airless Spray Application	16	N/A
			CAS 2404 Air-Assisted Airless Spray Application	16	N/A
			CAS 2405 Measuring & Monitoring Results / Inspection	16	N/A
			CAS 2406 -2499 Not Yet Assigned		

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
4.06	CAS	2500-2599	Coatings	1000 - 1200	96
			Course Code and Course Name	Hours	Months Valid
			CAS 2500 Composition and Types	32	N/A
			CAS 2501C Quality Control Specialist (CERTIFICATION)	64	48
			CAS 2502 Quality Assurance: Inspection	32	N/A
			CAS 2503C Quality Control Specialist Refresher (CERTIFICATION)	8	48
			CAS 2504 -2599 Not Yet Assigned		
4.07	CAS	2600-2699	Specialty Applications	650 - 850	80
			Course Code and Course Name	Hours	Months Valid
			CAS 2600 Concrete Specialty	16	N/A
			CAS 2601 Plural Components	16	N/A
			CAS 2602 Thermal Spray	16	N/A
			CAS 2603 Waterjetting	16	N/A
			CAS 2604 Electrostatic Spray	8	N/A
			CAS 2605 Pipeline Coatings	8	N/A
			CAS 2606 Powder Coatings	8	N/A
			CAS 2607C SSPC Thermal Spray Inspector (CERTIFICATION)	8	48
			CAS 2608C Bridge Coating Inspector (BCI) Level 1 (CERTIFICATION)	40	48
			CAS 2609C Kretus Foundational Skills (CERTIFICATION)	40	Permanent
			CAS 2610C Kretus Garage Flooring and More (CERTIFICATION)	40	Permanent
			CAS 2611 -2699 Not Yet Assigned		
4.08	CAS	2700-2799	Contractor Quality Management, continued		
			Course Code and Course Name	Hours	Months Valid
			CAS 2700 Introduction to Quality	4	N/A
			CAS 2701 Quality Resources	4	N/A
			CAS 2702 Quality Management and Document Controls	4	N/A
			CAS 2703 Instrument Calibration	4	N/A
			CAS 2704 Inspecting Coating Applications	4	N/A
			CAS 2705 Document and Specification Review	4	N/A
			CAS 2706 Inspection Plans	4	N/A
			CAS 2707 Preventative and Corrective Actions	4	N/A
			CAS 2708 Inspection Reports	4	N/A
			CAS 2709 Work Plans and Process Control Procedures	4	N/A

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
4.09	CAS	2800-2899	SSPC C-Series	4632- 6032	576
			Course Code and Course Name	Hours	Months Valid
			CAS 2710C Coatings Inspector Program Level 3 Peer Review (CERTIFICATION)	3	36
			CAS 2800C SSPC C-1 Fundamentals of Protective Coatings (CERTIFICATION)	40	48
			CAS 2801C SSPC C-2 Planning and Specifying Industrial Coatings Projects (CERTIFICATION)	40	Permanent
			CAS 2802C SSPC C-3 Supervisor/Competent Person Training for Deleading of Industrial Structures (CERTIFICATION)	32	Permanent
			CAS 2803C SSPC C-5 Supervisor/Competent Person Refresher for Deleading/Hazardous Coatings Removal on Industrial and Marine Structures	8	12
			CAS 2804C SSPC C-7 Abrasive Blasting Program (CERTIFICATION)	16	60
			CAS 2805C SSPC C-12 Spray Application (CERTIFICATION)	16	60
			CAS 2806C SSPC C-13 Water Jetting Program (CERTIFICATION)	16	60
			CAS 2807C SSPC C-14 (MPCAC) Marine Plural Component Program (CERTIFICATION)	16	48
			CAS 2808 SSPC C-10 Floor Coating Basics	16	N/A
			CAS 2809C SSPC Protective Coating Specialist (PCS) (CERTIFICATION)	4	48
			CAS 2810-2899 Not Yet Assigned		
4.10	CAS	2900-2999	Evaluations	4632- 6032	576
			Course Code and Course Name	Hours	Months Valid
			CAS 2900A CAS Evaluation (DC 51)	2	N/A
			CAS 2901A Top Out Exam CAS Apprentice	8	N/A

CAS Course Competencies

This table identifies the course competencies that the Coating and Lining Application Specialist apprentice will successfully complete.

4.0 COATING APPLICATION SPECIALIST

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
4.01 HEALTH AND SAFETY AWARENESS	<ul style="list-style-type: none"> Don (put on), doff (remove), inspect, and maintain the proper PPE that should be worn including, but not limited to: <ul style="list-style-type: none"> Head Eyes Hands Feet Face Ears Body Respiratory Perform a job analysis for safe working conditions: <ul style="list-style-type: none"> Attend pre-job safety meetings Read and interpret MSDS Adhere to site specific safety rules and federal regulations Establish and maintain a safe working perimeter Safely demonstrate the proper use and maintenance of ICLAS tools and equipment. Maintain clean work areas (housekeeping). Demonstrate how to perform positive and negative fit checks on selected respirators. Use selected monitoring equipment to measure the atmosphere in a confined space. Recognize the symptoms associated with excess exposure to heat and cold. Store, handle, and transport tools, equipment and materials properly. Identify the locations of First Aid and Fire Equipment. Correctly use fall arresting and other fall protection equipment. Demonstrate safe work practices for erecting and dismantling scaffolds, including: pre-planning, inspecting scaffold components, load capacity, platform construction, access requirements, and fall protection. 	<ul style="list-style-type: none"> Recognize the important areas of OSHA in general terms. Identify the Safety Regulations as they apply to safe work practices in the ICLAS trade with emphasis on: <ul style="list-style-type: none"> Identification of safety hazards (unsafe conditions) Maintenance and safe operation of tools Proper handling of materials, including hazardous PPE Describe the precautions that must be followed when using flammable liquids and adhesives. Explain the purpose of Hazard Communication programs. Explain what a Material Safety Data Sheet (MSDS) is, its purpose and limitation. Describe the role of employer, supplier, and worker in the education of workers. Outline emergency procedures and how to obtain assistance for injured workers. Compare and contrast the characteristics of a confined space with those of a permit-required confined space. Explain confined space characteristics and hazards. Identify 29 CFR 1910.146 as OSHA's General Industry Confined Spaces Rule. Describe the proper technique (ergonomics) for lifting and transporting ICLAS materials and equipment. Identify safety requirements for erecting and dismantling scaffolds, including: pre-planning, inspecting scaffold components, calculating load capacity, platform construction, access requirements, and fall protection. Describe potential fall hazards in the workplace.

4.0 COATING APPLICATION SPECIALIST, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
4.01 HEALTH AND SAFETY AWARENESS, continued	<ul style="list-style-type: none"> Describe and demonstrate the steps of ladder safety, including: selection, inspection, setup, safe techniques and proper maintenance and storage. Use flags and paddles to safely control vehicle movements around work zones in accordance with state and national guidelines. Demonstrate the measurement of a selected containment ventilation air pressure and/or air flow requirement using the appropriate instrumentation. Recognize and describe a selected emission quality assessment method. Perform and explain the procedures for conducting forklift inspections. Calculate load weight and determine forklift capabilities for that load. 	<ul style="list-style-type: none"> Identify the different types of aerial lifts and their related safety rules and precautions. Describe the different types of ladders and the conditions under which they are used. Understand the requirements to protect the driving public and work zone crew at and around construction and maintenance areas (or work zones). Describe a containment system (classes, enclosure components and methods, ventilation components and methods, emission assessment methods, and worker and equipment decontamination facilities). Describe the techniques and equipment used for environmental humidity/temperature control. Describe the qualifications of a competent Forklift Operator. Explain the laws, regulations, and elevation precautions that apply to forklift operations.
4.02 INTRODUCTION TO INDUSTRIAL COATINGS	<ul style="list-style-type: none"> Demonstrate the characteristics of a professional Industrial Coating and Lining Application Specialist. Exhibit suitable appearance and personal hygiene. Exhibit proper attitude and behavior on the job site, including private residences and other occupied buildings. Deal with difficult customers in a professional and courteous manner. Interpret written and verbal instructions. Recognize the importance of cooperation and interaction with related trades on a job site. Demonstrate the ability to follow specific work place protocol and procedures. 	<ul style="list-style-type: none"> Investigate the current state of the union's market share. Discuss the personal rewards and consequences associated with the union's market share. Describe successful strategies for unions to regain a market share in the construction industry. Identify and describe what the union provides on an ongoing basis to its members and affiliates. Identify the roles and responsibilities of the end users, contractors, union, and rank and file. Articulate the value that the union provides its members and affiliates. Describe the impact the IUPAT's Top Workplace Performance (TWP) program has on shaping attitudes and performance. Discuss the generational changes in rank and file attitudes and behaviors.
4.03 MATERIALS AND CORROSION	<ul style="list-style-type: none"> Recognize the critical role of the applicator in providing protection from corrosion. Recognize the 8 basic forms of corrosion. Demonstrate the 5 basic methods of mitigating corrosion. 	<ul style="list-style-type: none"> Identify tools of the trade. Explain how and why corrosion occurs.

4.0 COATING APPLICATION SPECIALIST, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
4.03 MATERIALS AND CORROSION, CONTINUED	<ul style="list-style-type: none"> • Select conditions that meet project demands in various conditions and service environments. • Set-up of a jobsite including selection of trailers, storing flammable liquids, waste thinner, hazardous lead waste, and tarps. • Demonstrate the ability to tie knots correctly and understand the different types of knots used in Industrial applications. • Store, handle, and transport tools, equipment and materials properly. 	<ul style="list-style-type: none"> • Identify and describe the 8 basic forms of corrosion and how to properly mitigate using proper techniques such as use of hand tools, power tools, and blast media. • Identify and describe the 5 basic methods of mitigating corrosion. • Explain how coatings are used to control corrosion. • Identify paint coat sequence of proper application procedures (primer, second coat, and finish coat). • Explain the environmental concerns associated with Industrial Coating materials.
4.04 SURFACE PREPARATION	<ul style="list-style-type: none"> • Apply proper surface preparation techniques to achieve the maximum level of protection available through protective coatings systems. • Create a surface that meets industry standards defining an achievable surface cleanliness level. • Demonstrate the safe and appropriate application of surface preparation techniques: <ul style="list-style-type: none"> ○ Solvent cleaning ○ Hand tool cleaning ○ Power tool cleaning ○ Water jetting ○ Chemical stripping ○ Abrasive blast cleaning ○ 4.04 blast cleaning ○ Centrifugal blast cleaning ○ Sodium bicarbonate blast cleaning ○ Sponge jetting ○ Carbon dioxide blast cleaning ○ Laser removal • Demonstrate and describe the proper use, maintenance and storage of surface preparation tools and equipment. • Demonstrate solvent hand tool cleaning, safety, PPE, methods, care, and repair SSPC - SP1. • Demonstrate power tool safety, PPE, methods of use, standards, and inspection SSPC - SP3. • Demonstrate the proper setup of compressor, blast pot, and separators with control valves, hose and coupling layout. • Demonstrate abrasive blasting system operation guidelines: warnings and hazards, pre-start, daily checks, start-up, operation, and shutdown. 	<ul style="list-style-type: none"> • Identify and describe various surfaces, substrates, and rust grades per SSPC Visual Standards and definitions. • Describe common methods of surface preparation and the conditions in which they are applied. • Explain abrasive blasting system operation guidelines: warnings and hazards, pre-start, daily checks, start-up, operation, and shutdown. • Recognize the importance of steel surface preparation. • Identify the effects of mass, velocity, air volume and pressure, nozzle, and hose size on abrasive blasting. • Identify and document initial condition of steel. • Identify the Standards for <ul style="list-style-type: none"> ○ Dry abrasive blasting ○ Wet abrasive blasting ○ Power and hand tools ○ Water cleaning and water jetting • Identify the acceptable abrasive blasting conditions (dew point, temperature, relative humidity, dehumidification, wind, and surface temperature). • Identify and describe the materials, equipment, and methods for chemical cleaning and high pressure and ultra-high pressure water jetting SSPC - SP12/AMPP 5.

4.0 COATING APPLICATION SPECIALIST, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
4.04 SURFACE PREPARATION, CONTINUED	<ul style="list-style-type: none"> Create a surface that meets industry standards defining an achievable surface cleanliness level. Demonstrate the proper use, care, PPE, and inspection of water cleaning and water jetting. Recognize and describe surface preparation of concrete in accordance with SSPC - SP13/AMPP 6. Measure ambient conditions. Determine when to measure ambient conditions. Recognize when coating operations should not be permitted due to adverse ambient conditions. Identify and employ troubleshooting techniques and procedures. 	<ul style="list-style-type: none"> Explain what and how ambient conditions affect application and coating performance. Identify the primary elements of a nozzle blast cleaning system. Discuss how abrasive characteristics affect: <ul style="list-style-type: none"> Cleaning levels › Recyclability Surface profile › Dust Productivity › Waste generation
4.05 SPRAY APPLICATIONS	<ul style="list-style-type: none"> Demonstrate proper spray techniques for each of the spray systems and troubleshoot spray pattern problems. Demonstrate proper care and maintenance of spray equipment. Demonstrate appropriate use and safe handling of spray equipment. Recognize, select, and demonstrate the following equipment for coating application: <ul style="list-style-type: none"> Brushes and rollers Conventional sprayers ○ Airless and air-assisted airless sprayers ○ HVLP Sprayers ○ Electrostatic sprayers ○ Plural component proportioning equipment ○ Wire flame and wire arc sprayers ○ Dry powder coating application processes Demonstrate thermo-spraying methods, i.e., wire flame, powder flame, electric arc and plasma. Demonstrate safe and proper methods to mix paint. Demonstrate proper use of wet film thickness gauge. Demonstrate the procedures required to clean and lubricate a spray gun. 	<ul style="list-style-type: none"> Describe basic conventional air and airless spray systems, including variations of each: Conventional (air), Airless, Air-assisted, High-volume, Low-pressure, Electrostatic and Plural-component. Identify by name, the parts of a spray gun and their functions. List the procedures required to clean and lubricate a spray gun. Identify the conditions under which each of spray systems may be used. Define and use the proper terms for describing spray techniques and equipment. Explain the relevance of coating terms; dry time, cure time and overcoat time. Recognize, select, and demonstrate the following equipment for coating application: <ul style="list-style-type: none"> ○ Brushes and rollers ○ Conventional sprayers ○ Airless and air-assisted airless sprayers ○ HVLP Sprayers ○ Electrostatic sprayers ○ Plural component proportioning equipment ○ Wire flame and wire arc sprayers ○ Dry powder coating application processes Recognize and describe applicable hazards and safety guidelines for the above mentioned equipment. Recognize and describe proper storage conditions.

4.0 COATING APPLICATION SPECIALIST, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
4.05 SPRAY APPLICATIONS, CONTINUED		<ul style="list-style-type: none"> Define pot life, induction time, and recoat window and explain their importance. Explain the methods used to obtain proper DFT and WFT with and without thinning.
4.06 COATINGS	<ul style="list-style-type: none"> Demonstrate proper use of wet film thickness gauge. Demonstrate quality inspection procedures for monitoring ambient air, surface temperature, and surface profile. Interpret manufacturer's catalog product data sheets to determine recommended uses and product/performance characteristics for industrial coatings. Use Material Safety Data Sheets (MSDSs) to determine the hazards, appropriate personal protective equipment, and other safety-relevant information pertaining to the use of industrial coatings. Use manufacturer's coating application bulletins to determine the proper surface preparation and application procedures required for use with industrial coatings. 	<ul style="list-style-type: none"> Identify the three basic mechanisms of corrosion control by coatings. Identify and explain the film properties necessary to provide the appropriate protection. Describe how coatings may provide galvanic (cathodic) protection. Discuss the different generic types available for use and the conditions under which different systems may be appropriate or inappropriate. Explain the function(s) of pigments, resins, solvents, and additives. Explain the differences between water-based and oil-based paints and coatings. Identify the film-forming mechanisms for different generic types of coatings. Explain the functions performed by the different types of industrial coatings: <ul style="list-style-type: none"> Primers/undercoats Finish coats Tie, intermediate, High-performance coatings build, and guide coats
4.07 SPECIALTY APPLICATIONS	<p><i>Concrete</i></p> <ul style="list-style-type: none"> Account for the effect each component has on concrete composition. Determine Alkali - Aggregate Reaction and Moisture Vapor Transmissions. Demonstrate the treatment and repair of concrete irregularities, joints and cracks. Demonstrate product mixing and thinning techniques. Conduct an adhesion test of a coating over concrete. 	<p><i>Concrete</i></p> <ul style="list-style-type: none"> Define concrete and its composition. Describe concrete surface preparations. Recognize the importance of reinforcing concrete. Describe the use of protective coatings over concrete. <p><i>Plural Components</i></p> <ul style="list-style-type: none"> Identify plural component application systems. Identify and describe the primary components of a plural component spray operation system.

4.0 COATING APPLICATION SPECIALIST, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
4.07 SPECIALTY APPLICATIONS, CONTINUED	<p><i>Plural Components</i></p> <ul style="list-style-type: none"> Determine the appropriate use of plural component application. Recognize and troubleshoot common problems associated with industrial coatings applied by the plural-component spray method. <p><i>Thermal Spray</i></p> <ul style="list-style-type: none"> Demonstrate correct and safe operating procedures during electric arc spraying. Demonstrate the ability to apply a thermal spray coating using the arc-spray method and employ the bend test, cut test, and ensile strength bond inspection tests as described. Employ safe operating procedures during electric arc spraying. <p><i>Waterjetting</i></p> <ul style="list-style-type: none"> Don and doff the proper PPE for waterjetting tasks. Perform daily inspection procedures and identify equipment problems. Evaluate surfaces if the required level of cleanliness has been achieved. <p><i>Powder Coatings</i></p> <ul style="list-style-type: none"> Demonstrate and describe the two basic powder application systems and their components. Select the most appropriate method of powder coating application for the job. Demonstrate the basics of operating, cleaning, and maintaining the equipment in powder coating systems. <p><i>Pipeline Coatings</i></p> <ul style="list-style-type: none"> Specify inspection testing of pipeline coatings to identify defects and the appropriate methods of repairing them. Demonstrate plant and field application of pipeline coating systems with different materials and methods of application. <p><i>Electrostatic Spray</i></p> <ul style="list-style-type: none"> Demonstrate and describe the use of automated and manual systems. Demonstrate operational and safety guidance. 	<ul style="list-style-type: none"> Identify and describe the physical properties of plural component coatings and how they affect application methods. Define key characteristics of plural components coatings. Identify the physical properties of plural components coatings. Explain how plural components coatings affect application methods. <p><i>Thermal Spray</i></p> <ul style="list-style-type: none"> Describe common thermal spray methods of application. Describe the proper use and applications of thermal spray coatings. Describe the function of each component in the electric arc process of thermal spraying. Explain the difference between SSPC - SP 3 and SSPC - SP 10 and identify the service environments when each may be specified. Discuss the components of the job reference standard and job control record and the importance and role of each during thermal spray application. <p><i>Waterjetting</i></p> <ul style="list-style-type: none"> Identify the various components of the waterjetting system. Identify components and functions of WAB equipment. Explain the importance of using waterjetting equipment safely. Identify the components and functions of Wet Abrasive Blasting equipment. <p><i>Powder Coatings</i></p> <ul style="list-style-type: none"> Recognize and describe the conditions when powder is the most appropriate coating system for a job. Identify and describe the operational and safety requirements for the job. <p><i>Pipeline Coatings</i></p> <ul style="list-style-type: none"> Identify and select pipeline coating systems to be applied in plants.

4.0 COATING APPLICATION SPECIALIST, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
4.07 SPECIALTY APPLICATIONS, CONTINUED		<ul style="list-style-type: none"> Identify and select pipeline coating systems to be applied in the field. <p><i>Electrostatic Spray</i></p> <ul style="list-style-type: none"> Describe the basic concepts of electrostatic spray techniques. Identify the type of electrostatic spray appropriate for specific jobs. Identify the basic operational and safety steps of each method. Describe the uses of the Corona and contact charging systems.
4.08 CONTRACTOR QUALITY MANAGEMENT	<ul style="list-style-type: none"> Demonstrate the ability to determine WFT by notch gauge, DFT by SSPC - PA 2, adhesion by tape method, and dryness or state of cure. Demonstrate a working knowledge of the requirements and standards that apply to the various tasks involved in the QC inspection process, including: <ul style="list-style-type: none"> Pre-surface preparation inspection Measurement of ambient conditions Evaluation of compressor, air cleanliness, and surface preparation equipment Determination of surface preparation, cleanliness, and profile Mixing and thinning of coating materials Evaluation of application equipment Inspecting coating application and cleanliness between coats Determination of wet-film and dry-film thickness Pinhole and holiday testing Evaluating adhesion/cure Demonstrate how to calibrate and use the test equipment and instruments needed to verify compliance with the various QC inspection tasks. Demonstrate how to fill out the various forms used to record the results of QC inspections. 	<ul style="list-style-type: none"> Define quality and how it is used in a painting environment. List the benefits of using a quality system. Explain the differences between quality control and quality assurance. Explain who is responsible for performing quality control and quality assurance inspections. Describe the resources a contractor and the QC inspector should have on hand both in the office and on the job site. Describe the components of a formal quality manual and why it is used. Recognize the importance of document and data control. Identify the types of documents requiring control. Define calibration. Describe the requirements of a calibration program. Recognize the importance of equipment maintenance and associated records. Discuss how to verify and record equipment calibration. Identify appropriate hold points for work inspection during coating application. Recognize pre-bid review, contract amendments, and the CSI format. Describe the importance of the pre-job conference and hold-point/check-point progress meetings and what is covered in each meeting.



Coating Application Specialist Course Description

COURSE	DESCRIPTION
CAS 2000 Health and Safety Awareness for the Industrial Painter	<p>Hour/s: 40</p> <p>This module reviews basic safety information, including hazard communication, paint application and job site hazards, and personal protective equipment.</p>
CAS 2001 Bridge Rigging	<p>Hour/s: 8</p> <p>Bridge Rigging requires special equipment, from single span covered bridges to multi-design structures several miles in length. The most common method of installing temporary staging on bridges is with Cable Rigging. Wire rope (cable) is attached to the structure and staging and staging is attached to the wire rope. These cables are usually secured to the bearing areas on the structure, and tensioned. Other methods will be discussed as sited conditions allow.</p>
CAS 2002 Health and Safety Awareness for the Industrial Painter II	<p>Hour/s: 8</p> <p>This module reviews basic safety information, including hazard communication, paint application and job site hazards, and personal protective equipment.</p>
CAS 2003 Not Yet Assigned	
CAS 2004 Bridge Awareness	<p>Hour/s: 16</p> <p>This course will provide the student the overall view to bridge painting. You will learn what it takes to paint a bridge safely and properly. You will learn what it takes and what you must know to be able to join a bridge painting crew. You will identify what safety courses and what certifications you MUST obtain to work on a bridge.</p>
CAS 2005C Quickdeck Level 2 Installer (CERTIFICATION)	<p>Hour/s: 8</p> <p>Class on installing Safeway Quickdeck System (Certification Period: Permanent)</p>
CAS 2006C SPRAT Rope Access Training Level 1 (CERTIFICATION)	<p>Hour/s: 40</p> <p>Rope access provides a safe, cost-effective, and efficient means of accessing structures and geologic features for inspection, maintenance, and construction. Part one of three levels, this is a level 1 technician course where the individual will perform rope access work (Certification Period: Permanent).</p>

COURSE**DESCRIPTION**

**CAS 2007-2012 Not Yet
Assigned**

**CAS 2013 Industrial
Applicator**

Hour/s: 4

Students will learn to apply their theoretical knowledge and skills to the corrosion protection of steel and concrete on complex industrial structures through course work in Health and Safety Awareness for Application Specialists, surface preparation and coating materials properties, and application. Specialty application course work in plural component and thermal spray will further assist students in expanding their skills.

**CAS 2014C AMPP
Certified Coating
Applicator
(CERTIFICATION)**

Hour/s: 7.5

Each candidate will be expected to do a thorough walk through to inspect the equipment, demonstrate knowledge of hand and power tools, blast and paint an ASTM panel. Each exam portion is 2.5 hours long and approximately 100 questions (Certification Period: 36 months).

Candidates who want to become a Coating Applicator Examiners:

1. Minimum of 5 years applicator experience
2. Certified Coating applicator- in the interim they must pass both exams via participating in exam development or the beta exams
3. Must have taken and passed the written/ computer based test (CBT) prior to taking the practical hands on beta exam
4. Attend AMPP examiner training (where they will be administered the practical exam while still in beta testing). The candidate must score at least 80% on the hands on practical to continue with the examiner training
5. Must not be a AMPP Coating Applicator Instructor

**CAS 2015C GWO
Working at Height
(CERTIFICATION)**

Hour/s: 14

This Global Wind Organisation (GWO) module enables participants to work in a remote wind turbine environment using the proper PPE (personal protective equipment), performing safe work at heights, and completing basic rescues at height. GWO certified through ENSA (Certification Period: 24 months).

**CAS 2016C GWO Sea
Survival Training for
Offshore Wind
(CERTIFICATION)**

Hour/s: 7

This Global Wind Organisation (GWO) module enables participants to take the correct preventive actions in all aspects of offshore safe access and rescue. This module prepares participants for regular operation and emergencies during travel from shore to installation or turbine and while up tower. GWO certified through ENSA (Certification Period: 24 months).

COURSE**DESCRIPTION**

CAS 2017C GWO Safety Training Fire Awareness (CERTIFICATION)	Hour/s: 4 Global Wind Organisation (GWO) module enables participants working in a remote wind turbine environment to prevent fires and conduct initial judgment when evaluating a fire. Participants learn evacuation management, accounting of personnel, and initial fire extinguishing with handheld firefighting equipment. GWO certified through ENSA (Certification Period: 24 months).
CAS 2018C GWO First Aid - Trauma at Height (CERTIFICATION)	Hour/s: 16 This GWO module enables participants working in a remote wind turbine environment to administer safe, effective, and immediate lifesaving measures using advanced emergency equipment and medical teleconsultation. GWO certified through ENSA (Certification Period: 24 months).
CAS 2019C GWO Manual Handling (CERTIFICATION)	Hour/s: 4 This GWO module enables participants working in a remote wind turbine environment to develop positive manual handling and ergonomic behaviors. GWO certified through ENSA (Certification Period: 24 months).
CAS 2020C Huet for Offshore Wind (CERTIFICATION)	Hour/s: 7 This program is designed to meet the offshore safety and emergency response training requirements for personnel working in the offshore wind industry who will be supplied with a compressed air emergency breathing system during offshore helicopter travel. (Certification Period: Permanent).
CAS 2021C GWO Basic Safety Training Refresher (CERTIFICATION)	Hour/s: 24 BSTR aims to review and build on previously gained knowledge and skills from BST through theoretical and practical training. This BSTR training shall enable participants to support and care for themselves and others working in the industry by possessing the knowledge and skills of first aid, working at heights, manual handling, fire awareness, sea survival, and, in case of an emergency, being able to evacuate, rescue, and provide appropriate first aid to casualties (Certification Period: 24 months).
CAS 2022-2099 Not Yet Assigned	Hour/s: X XXX

COURSE	DESCRIPTION
CAS 2100 Introduction to Industrial Coatings	<p>Hour/s: 32</p> <p>This course will orient individuals to the industrial painting profession. Topics to be covered include coating materials, tools, equipment and terminology. The differences between industrial painting and commercial painting will be identified and described.</p>
CAS 2101 Coating Application Specialist (CAS) Examination Preparation	<p>Hour/s: 8</p> <p>This course is designed to teach experienced IUPAT Coating Application Specialists the necessary knowledge, skills and strategies to successfully pass the SSPC Coating Application Specialist written and hands-on examination.</p>
CAS 2102 CAS Special Topics	<p>Hour/s: 40</p> <p>This module reviews basic safety information, including hazard communication, paint application and job site hazards, and personal protective equipment.</p>
CAS 2103C SSPC Coating Application Specialist (CAS) (CERTIFICATION)	<p>Hour/s: 4</p> <p>The SSPC Coating Application Specialist Certification Program is designed to certify those individual craft workers who have experience and training in all aspects of hands-on surface preparation and coating application of complex industrial and marine structures, according to the requirements of the SSPC Coating Application Specialist (CAS) Program. This certification program also meets the requirements of ISO 17024 (http://www.sspc.org/Coating-Application-Specialist-CAS-Certification-Program/) (Certification Period: 36 months).</p> <p>Member Card Abbreviation: SSPC CAS Exam & Proctor</p>
CAS 2104C Industrial Refresher (CERTIFICATION)	<p>Hour/s: 8</p> <p>This refresher course will include a 4-hour OSHA safety, fall protection and HAZCON; a 2-hour respirator certification class/fit test; and a 2-hour SAP (Substance Abuse Program) (Certification Period: 12 months).</p>

COURSE**DESCRIPTION****CAS 2105C CAS Level I
(CERTIFICATION)**

Hour/s: 1.5

This part of the CAS program consists of a one-hour written exam. Basic Level I qualification is intended for entry-level/trainee Application Specialists. Level 1 Application Specialists customarily work with and under the supervision of Level 2 and Level 3 Application Specialists. Qualification Requirements: Level 1: Successful completion of a skills assessment program (administered by the contractor or its designee) measuring essential employability skills: basic reading, writing and arithmetic, document use, and numeracy evaluated in the language of the workplace. Successful completion of an SSPC-administered written examination on good painting practices. Exam Content: The SSPC Coating Application Specialist Level 1 exam consists of basic knowledge of industrial coatings and linings. The written exam consists of multiple choice questions. To receive a certificate and CEU's you must attain a 70% or better score on the exam. Special Note: Level 1 Qualification is not required to move on to the Level 2 Certification Exam (Certification Period: Permanent).

**CAS 2106C CAS Level II
Interim
(CERTIFICATION)**

Hour/s: 16

A training and certification program designed to meet the requirements for a level 2 certified Coating and Lining Application Specialist set forth in the Body of Knowledge contained within the SSPC ACS 1/AMPP No.13 Joint Standard and in accordance with ISO 17024 (Certification Period: 36 months).

**CAS 2107C CAS Level II
Full (CERTIFICATION)**

Hour/s: 16

SPC Coating Application Specialist (CAS) Certification Program, allows those in the current workforce the opportunity to realistically achieve certification during the next several years. It focuses directly on the needs of the Application Specialist and provides criteria for the education, training, experience, knowledge, and motor skills required to prepare and apply protective coatings to steel and concrete surfaces of complex industrial and marine structures (Certification Period: 36 months).

**CAS 2108C CAS Level II
Renewal
(CERTIFICATION)**

Hour/s: 3

This course satisfies SSPC requirements to renew the CAS Level II (Certification period: 36 months).

**CAS 2109 CAS Operator
Volunteer**

Hour/s: 8

Operator for the CAS Exam

CAS 2110 CAS Expo

Hour/s: 8

Credit given to members attending the annual CAS EXPO.

COURSE	DESCRIPTION
CAS 2111 CAS Level II Interim Exam Prep	<p>Hour/s: 16</p> <p>Preparation for the Coatings Application Specialist Interim Level II examination.</p>
CAS 2112C AMPP CCA (CERTIFICATION)	<p>Hour/s: 8</p> <p>A training and certification program designed to meet the requirements for a level 2 certified Coating and Lining Application Specialist set forth in the Body of Knowledge contained within the SSPC ACS 1/AMPP No.13 Joint Standard and in accordance with ISO 17024 (Certification Period: 36 months).</p>
CAS 2113C AMMP CCAS (Concrete Coating Applicator Specialist) (CERTIFICATION)	<p>Hour/s: 32</p> <p>This course provides a comprehensive overview and practical hands-on training for craft worker personnel who wish to be trained and certified in the application of coatings on concrete surfaces. This course offers hands-on exercises that focus on repair of deteriorated concrete, surface preparation of concrete, and coating application of concrete. After the completion of this training course, craft worker personnel should be able to demonstrate proper preparation and coating application methods on concrete coating projects (Certification Period: 24 months).</p>
CAS 2114-2199 Not Yet Assigned	
CAS 2200 Introduction to Corrosion Theory and Control	<p>Hour/s: 40</p> <p>This course discusses how corrosion occurs and the role of the blaster/applicator in corrosion mitigation and prevention.</p>

COURSE**DESCRIPTION****CAS 2201 – Not yet assigned****CAS 2300 Introduction to Surface Preparation**

Hour/s: 12

This course provides a general introduction to steel surface preparation, cleaning methods, and cleanliness standards and the levels of cleaning they specify before addressing the specifics of solvent and hand- and power-tool cleaning and abrasive blast cleaning.

CAS 2301 Ambient Conditions

Hour/s: 12

This course discusses the importance of ambient conditions during cleaning and painting operations, how to properly measure ambient conditions, and their effect on coating performance.

CAS 2302 Nozzle Blasting Systems

Hour/s: 12

This course describes the primary components of air abrasive blast cleaning nozzle equipment through use of the metering valve. It also discusses abrasive media. This course also describes the components of air abrasive blast cleaning nozzle equipment, reviews safety procedures, and offers productivity tips.

CAS 2303 Abrasives

Hour/s: 12

This course discusses various abrasive media, their characteristics, and how choosing the proper abrasive influences cleaning levels, productivity, and surface profile.

CAS 2304 Portable Wheel Blast Equipment

Hour/s: 12

This course describes the components of portable centrifugal (wheel) abrasive blast cleaning equipment and provides operational and troubleshooting tips.

CAS 2305 -2311 Not Yet Assigned**CAS 2312 Introduction to Blasting**

Hour/s: 4

This course describes the primary components of air abrasive blast cleaning nozzle equipment through use of the metering valve. It also discusses abrasive media. This course also describes the components of air abrasive blast cleaning nozzle equipment, reviews safety procedures, and offers productivity tips.

CAS 2313 -2399 Not Yet Assigned

COURSE**DESCRIPTION****CAS 2400 Introduction to Spray Applications**

Hour/s: 12

This course introduces coating application methods, explains when each method may be used, and discusses those job site conditions you should check before beginning work.

CAS 2401 Mixing and Thinning

Hour/s: 12

This course describes proper storage and mixing and thinning techniques and introduces the procedures and formulas used to achieve desired film thickness. It also defines pot life, induction time, and recoat window and discusses when these issues may pose certain challenges.

CAS2402 Conventional Spray Application

Hour/s: 16

This course defines and describes the components of conventional spray application systems and discusses the correct procedure required to apply a coating using conventional spray.

CAS 2403 Airless Spray Application

Hour/s: 16

This course introduces the basic terms associated with airless spray application and identifies the equipment components used. It also discusses proper spray application procedures and spray pattern problems.

CAS 2404 Air-Assisted Airless Spray Application

Hour/s: 16

This course introduces the basic terms associated with air-assisted airless spray application and describes the equipment components used.

CAS 2405 Measuring and Monitoring Results/Inspection

Hour/s: 16

This course identifies those processes used to measure and monitor work results during and after the application process.

CAS 2500 Composition and Types

Hour/s: 32

This course covers corrosion control by coatings, coating composition and different coating types.

COURSE**DESCRIPTION**

CAS 2501C Quality Control Specialist (CERTIFICATION)	Hour/s: 64 This course discusses quality control basics, application techniques, specific conditions for coating application, and mixing one and two component coatings. Additionally, the inspection of protective coatings includes monitoring ambient conditions, testing of atmospheric moisture, mixing and viscosity, and general inspection tools. It will give the student detailed instructions, techniques, and cite technical standards that are relevant for inspecting coating applications with focus on dry film thickness, adhesion, and discontinuities (Certification Period: 48 months).
CAS 2502 Quality Assurance: Inspection	Hour/s: 32 The inspection of protective coatings includes monitoring ambient conditions, testing of atmospheric moisture, mixing and viscosity, and general inspection tools. It will give you detailed instructions, techniques, and cite technical standards that are relevant for inspecting coating applications with focus on dry film thickness, adhesion, and discontinuities.
CAS 2503C Quality Control Specialist Refresher (CERTIFICATION)	Hour/s: 8 This refresher course will review quality control basics, application techniques, specific conditions for coating application, and mixing one and two component coatings. Additionally, it will give the student detailed instructions, techniques, and cite technical standards that are relevant for inspecting coating applications with focus on dry film thickness, adhesion, and discontinuities (Certification Period: 48 months).
CAS 2504 -2599 Not Yet Assigned	
CAS 2600 Concrete Specialty	Hour/s: 16 This course defines the properties of concrete and its mix components and describes the unique features of concrete surfaces that make them difficult to coat.
CAS 2601 Plural Components	Hour/s: 16 This course provides an introduction and overview of plural component spray technology methods of applying industrial/marine protective coatings.
CAS 2602 Thermal Spray	Hour/s: 16 This course defines thermal spray coating and provides an overview of its application and uses.

COURSE**DESCRIPTION****CAS 2603 Waterjetting**

Hour/s: 16

This course will discuss the types and functions of water jetting equipment and how to operate the equipment with maximum productivity.

CAS 2604 Electrostatic Spray

Hour/s: 8

This course reviews the common methods of applying electrostatic coatings and the special features of these methods.

CAS 2605 Pipeline Coatings

Hour/s: 8

This course describes commonly used methods for applying commonly used coating systems to steel pipelines.

CAS 2606 Powder Coatings

Hour/s: 8

This course provides guidance on when and how to use different systems to apply powder coatings to industrial metal work pieces.

CAS 2607C SSPC Thermal Spray Inspector (CERTIFICATION)

Hour/s: 8

Thermal spray coatings provide a longer lasting and more robust coating system than traditional coatings for many applications. As thermal spray coatings become more widely used in the protective coatings industry, it becomes more important to ensure these coating systems are applied properly. Be an expert in thermal spray inspection by learning how to navigate the NAVSEA standard on thermal spray and a Department of Transportation (DOT) specification (Certification Period: 48 months).

CAS 2608C Bridge Coating Inspector (BCI) Level 1 (CERTIFICATION)

Hour/s: 40

The Bridge Coatings Inspector (BCI) Level 1 Inspector understands the fundamentals of surface preparation and application of protective coatings on bridge steel. Other areas of understanding include containment, field safety hazards, and adapting to changing weather conditions. The BCI Level 1 Inspector also has the skills required to inspect new bridge steel painted in the shop, in the field, or maintenance systems applied in the field (Certification Period: 48 months).

COURSE	DESCRIPTION
CAS 2609C Kretus Foundational Skills (CERTIFICATION)	<p>Hour/s: 40</p> <p>Kretus is an international distributor of resinous coatings that is family owned for over 30 years. Kretus is offering application training and certification for members who take their series of classes. This training will cover foundational Skills includes classroom instruction on industry trends, green building sustainability, general product knowledge, application techniques, documentation and jobsite assessments (Certification Period: Permanent).</p>
CAS 2610C Kretus Garage Flooring and More (CERTIFICATION)	<p>Hour/s: 40</p> <p>Kretus is an international distributor of resinous coatings that is family owned for over 30 years. Kretus is offering application training and certification for members who take their series of classes. This training will cover the basics of Epoxy; mixing application, UPC 101, Chip and Quartz Broadcast (Certification Period: Permanent).</p>
CAS 2611 -2699 Not Yet Assigned	
CAS 2700 Introduction to Quality	<p>Hour/s: 4</p> <p>This course introduces quality management concepts that contractors and their craft workers can apply on the job.</p>
CAS 2701 Quality Resources	<p>Hour/s: 4</p> <p>This course describes the standards, manuals, reference data and other documents used in a formal contractor quality system.</p>
CAS 2702 Quality Management and Document Control	<p>Hour/s: 4</p> <p>This course introduces the concepts of a formal quality manual and the role of document control in a contractor quality program.</p>
CAS 2703 Instrument Calibration	<p>Hour/s: 4</p> <p>This course describes how to maintain and verify the accuracy and calibration of inspection equipment.</p>
CAS 2704 Inspecting Coating Applications	<p>Hour/s: 4</p> <p>This course introduces the quality tests and the tools used to check coating application on the job site once the calibration of inspection instruments has been verified. Surface preparation and its inspection are covered in a separate, earlier module.</p>

COURSE

DESCRIPTION

CAS 2705 Document Specification Review

Hour/s: 4

This course covers the requirements for contract and specification review and the methods of documentation.

CAS 2706 Inspection Plans

Hour/s: 4

This module provides an overview of the purpose and development of Inspection Plans.

CAS 2707 Preventative and Corrective Actions

Hour/s: 4

This course defines and discusses the separate processes of preventative actions and corrective actions.

CAS 2708 Inspection Reports

Hour/s: 4

This course is an overview of the information that is required in the documentation of the inspection process.

CAS 2709 Work Plans and Process Control Procedures

Hour/s: 4

This course discusses the purpose and development of Work Plans and Process Control Procedures (PCPs).

CAS 2710C Coatings Inspector Program Level 3 Peer Review (CERTIFICATION)

Hours: 3

This certification is designed for level 3 coating inspectors (AMPP Certified Coating Inspector - Level 3) who aim to be recognized as leaders in the Coatings Inspection field. This includes highly skilled and experienced in corrosion, surface preparation, cleanliness, environmental conditions, test instruments, coating mixtures, and safety, can undertake unsupervised non-destructive and destructive inspections of liquid and non-liquid coatings applied to any substrate, has demonstrated technical knowledge, problem solving ability regarding issues that may arise on site and is capable of supervising basic (CIP level 1) and intermediate (CIP level 2) coating inspectors. Upon successful achievement of the CIP Level certification, a Candidate would be able to perform unsupervised non-destructive inspections of liquid and non-liquid coatings to any substrate and demonstrate technical knowledge, problem solving ability regarding issues that may arise on-site and would be capable of supervising basic (CIP level 1) and intermediate (CIP level 2) coating inspectors. with the required work experience and education requirements. Prerequisites: Active CIP (Certification Period: 36 months).

Member Card Abbreviation: Coatings Inspector Level 3



COURSE

DESCRIPTION

CAS 2800C C-1 SSPC Fundamentals of Protective Coatings (CERTIFICATION)

Hour/s: 40

This course provides a practical and comprehensive overview for those who are new to the protective coatings industry. It is also an ideal refresher for reviewing the fundamentals of corrosion and the use of coatings as a protective mechanism against corrosion and deterioration of industrial structures (Certification Period: Permanent).

Member Card Abbreviation: SSPC C-1 Fundamentals Protect

CAS 2801C SSPC C-2 Planning and Specifying Industrial Coatings Projects (CERTIFICATION)

Hour/s: 40

This course is designed to provide those who understand coating fundamentals with an overview of the principles of planning, awarding and monitoring the quality of new construction or maintenance painting projects. After completing this training program, students will be familiar with tools to develop effective coating projects and play a more active role in managing painting projects to successful completion (Certification Period: Permanent).

Member Card Abbreviation: SSPC C-2 Plan&Specify Coatings

CAS 2802C SSPC C-3 Supervisor/Competent Person Training for Deleading of Industrial Structures (CERTIFICATION)

Hour/s: 32

C3 includes background information on the hazards of lead and other toxic metals as well as the current legal and regulatory environment. The course contains specific discussions on protecting workers; compliance with environmental regulations; proper management of waste streams and operations that result in potential exposures to lead; and associated control technology. The course also addresses reading specifications and developing programs to effectively control risks to workers, the public and the environment. It concludes with a discussion of insurance and bonding issues and an introduction to other safety and health issues that are encountered on painting projects.

This course emphasizes hands-on experiences. Each day participants practice competent person duties immediately after they are discussed in the classroom, resulting in more interactive discussion between participants and the instructors. Small group settings are used during the workshops to ensure that all participants successfully complete each practical exercise. This course is the first in a series of qualifications for SSPC instructors (Certification Period: Permanent).

Member Card Abbreviation: SSPC C-3 Supervisor Competent



COURSE**DESCRIPTION****CAS 2803C SSPC C-5
Supervisor/Competent
Person Refresher for
Deleading/Hazardous
Coatings Removal on
Industrial and Marine
Structures**

Hour/s: 8

The course starts with a review of basic information about lead and the human health hazards associated with it. The course continues with a review and update of relevant EPA regulations and progresses through discussions of 29 CFR 1926.62 and changes in the Respiratory Protection Standard (29 CFR 1910.134). C5 concludes with discussions about control over emissions as presented in SSPC Guide 6 (Certification Period: 12 months).

Member Card Abbreviation: SSPC C-5 Lead Paint Removal

**CAS 2804C SSPC C-7
Abrasive Blasting
Program
(CERTIFICATION)**

Hour/s: 16

C7 is designed for contractor personnel who wish to obtain certification or others who wish to learn about dry abrasive blast cleaning of steel. It covers principles of surface preparation, surface cleanliness, surface profile, dust and debris control and abrasives. Note: Students who do not want to receive the C7 Certification can attend and receive a certificate of attendance by only attending the lecture portion of the training and observing the blaster demonstration (Certification Period: 60 months).

Member Card Abbreviation: SSPC C-7 Abrasive Blasting

**CAS 2805C SSPC C-12
Spray Application
(CERTIFICATION)**

Hour/s: 16

This course is designed to train and certify marine/industrial applicators to operate airless spray equipment, incorporating the use of a paint simulator and actual hands-on spraying. While using the simulator you will learn the proper technique for airless spray painting by using a program that simulates real life situations and equipment used in the field (Certification Period: 60 months).

Member Card Abbreviation: SSPC Spray Application

**CAS 2806C SSPC C-13
Water Jetting Program
(CERTIFICATION)**

Hour/s: 16

This program assesses the skills of waterjetters who have a minimum of 120 hours waterjetting work experience and prior documented employer-provided training on the waterjetting equipment they use on the job. Candidates are certified through a brief written exam and a practical hands-on skill assessment. This is not a training program for beginners. It is a certification program for waterjetters meeting specific experience requirements (Certification Period: 60 months).

Member Card Abbreviation: SSPC C-13 Water Jetting

COURSE**DESCRIPTION****CAS 2807C SSPC C-14
(MPCAC) Marine Plural
Component Program
(CERTIFICATION)**

Hour/s: 16

This course is designed to certify craft workers operating plural component spray equipment and those applying protective coatings on steel in immersion service by airless spray using plural component spray equipment (Certification Period: 48 months).

Member Card Abbreviation: SSPC C-14 MPCAC

**CAS 2808 SSPC C-10
Floor Coating Basics**

Hour/s: 16

This course is designed to meet the practical training requirements of SSPC-QP 8 Section 4.4, which require that each job crew chief and each QC manager complete a minimum two-day overview of concrete components, coating and surfacing types, and surface preparation and substrate repair techniques based on SSPC consensus standards TU-10, "Procedures for Applying Thick Film Coatings and Surfacing Over Concrete Floors."

**CAS 2809C SSPC
Protective Coating
Specialist (PCS)
(CERTIFICATION)**

Hour/s: 4

The Protective Coatings Specialist certification program (PCS) identifies and awards recognition to individuals who have in-depth knowledge in the principles and practices of industrial coatings technology. Certification attests to the professional credibility of the coatings practitioner and raises the standards of the protective coatings profession (Certification Period: 48 months).

Coatings Inspector

O*NET-SOCCODE: 51-9061.00

RAPIDS CODE:

Course Competencies

The Program level curriculum builds upon the foundation of the core curriculum skills, knowledge, and abilities. At the program level, craft-specific standardized curriculum is designed by an ad-hoc committee comprised of the iFTI Curriculum Department, IUPAT/iFTI subject matter experts, employers, manufacturers, and associations.

Apprentices will be assessed on their acquisition of knowledge, skills and abilities in the core curriculum through hands-on and written tests as well as On-the-Job Learning (OJL) performance measures.

Additionally, the apprentices will integrate their core knowledge, skills and abilities into the pursuit of specific craft training throughout the term of their apprenticeship. This program specific training is designed to build the technical and professional skills needed by the crafts person to successfully perform his or her trade profession.



Apprenticeship Program

The Coatings Inspector Apprenticeship Program is co-sponsored by the IUPAT/iFTI in collaboration to meet the ever-changing needs of the industry and the affiliates it serves. The two-year program, in collaboration with AMPP (NACE International & SSPC: The Society for Protective Coatings are now AMPP), ensures that students will learn the theoretical knowledge and the practical skills necessary to become a Coatings Inspector. During this program of study, students will successfully complete the IUPAT/iFTI core curriculum and integrate it into the Coatings Inspector craft specific training. Students successfully completing this program apply their skills and abilities as a Coatings Inspector.

Description of Occupation

Coatings Inspectors are individuals thoroughly trained in the proper methods of inspecting surface preparation and installation of industrial and marine protective coatings and lining systems to an array of industrial structures and facilities. Coatings Inspectors examine and evaluate a variety of high-performance coatings applied to steel and concrete on complex structures, such as bridges and towers; waterfront structures, such as locks and dam, ship hulls, offshore platforms, bulkheads, and piers; metal and manufacturing facilities; chemical and processing facilities (e.g. food processing; pulp and paper mills; food and beverage plants; water and wastewater processing facilities); and conventional and nuclear power generation facilities. By the nature of their work, Coatings Inspectors often work in dangerous environments such as bridges high over waterways, other highways or railroads, or in confined spaces such as shipboard spaces, small vessels or storage tanks. Because of this, Coatings Inspectors are required to receive more specialized training in health and safety due to the hazards associated with their inspection work.

In today's environmentally-conscious culture, the Coatings Inspector must recognize the safety hazards involved in coating operations, the responsibilities of management and worker safety practices to protect the environment surrounding the work site to ensure that hazardous debris such as lead-based paint and abrasive blasting media is properly contained and disposed of according to stringent federal, state and local regulations. Students will learn to apply their theoretical knowledge and skills through course work in Core Curriculum in the Finishing Trades Industry, Coating Applicator Basics, Health and Safety Risk Management for the Coatings Inspector and Certified Coatings Inspection.

The objective of the Coatings Inspector Program is to determine, through proctored written and practical examination, whether an individual has the skill and knowledge to perform quality surface preparation and protective coatings inspections.

Training/Skill Set

The Industrial Painting uses Apprenticeship Training as its greatest opportunity to expand the workforce. People with limited or no experience in the industry can use the available apprenticeship program as a catalyst to becoming a qualified Journey person in the trade.

The Industrial Painting (CAS) curriculum and training will provide the skills, knowledge, and abilities needed to meet the needs of the industry and to ensure that each worker is equipped to use the technology, materials, and applicable methods of inspections as well as enforcing all quality and safety standards on every coating project.

Coatings Inspector learning their trade through an apprenticeship program will receive relevant classroom training as well as on-the-job training and experience. The on-the-job training may include tasks such as quality control/assurance for bridges, water tanks, oil refineries, and other structural steel.

Skills needed to become a Coatings Inspector include manual dexterity, eye-hand coordination, physical fitness, and a good sense of balance and color. Just as important is person with character and moral code. The job of an inspector is to ensure a contractor complies with the agreed specification. Emphasized early in the apprentice's career is adherence to and knowledge of OSHA standards for personal safety; safety on the jobsite; and proper handling of tools, materials and equipment. Additionally, the student will discuss safe work practices when working with industrial paint materials.

Working Environment

The Industrial Painting industry has different environments. Most areas of the work will be outdoors on structural steel including but not limited to bridges, elevated water tanks, refineries, shipyards, pipelines, and even offshore oil rigs. Shifts can be at any time of the day/night at different lengths.

Program Level Competencies

With reference to each of the respective areas of the Tradeshow Worker occupation, apprentices successfully completing this program will be able to:

- ✓ Recognize and execute the duties, responsibilities, and authority of a coatings inspector including ethics, safety and conflict prevention.
- ✓ Identify types of corrosion; properties of a coating, coatings classification, modes of protection; coating types and curing mechanisms.
- ✓ Describe how coatings inspection can prevent premature coating failure and identify common modes for coatings failure.
- ✓ Perform coating inspections using non-destructive techniques and inspection instruments; test instruments for measurement of environmental or ambient conditions.
- ✓ Identify proper surface preparation techniques, equipment, methods and standards for abrasive blasting, solvent cleaning and power and manual tool cleaning.
- ✓ Demonstrate the ability to develop pre-job or preconstruction conference and an inspection plan/procedure with thorough documentation and log book content.
- ✓ Identify the differences between quality assurance and quality control and the impact to coatings performance.
- ✓ Compare inspection results to specification requirements.

Suggested Program of Study for Coatings Inspector Program

The IUPAT/iFTI Program of Study for the Coatings Inspector On-the-Job Learning and Related Instruction is outlined below. Under this hybrid program, an apprentice must participate in the indicated minimum number of hours of OJL for each category of the program. The Program Sponsor is responsible for determining the number of RI hours that an apprentice must participate in based on the iFTI guidance, local needs, and the mandated minimum of 320 hours per year.

CATEGOR Y #	CATEGORY NAME	OJL HOURS	RI HOURS
1.00-3.00	Core Curriculum	32	96
4.03/4.04	Coatings Applicator Basics	750 - 800	80
4.02	Health and Safety Risk Management for the Coatings Inspector	750 - 800	128
4.03	Certified Coatings Inspector	1500 - 2000	96
	Total	3,032 -- 3632	320

NOTE: The competencies for the Coatings Inspector program are similar to the CAS (Painter-Industrial) curriculum.

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
	1.0-3.0		Core Curriculum	32	96
			Course Code and Course Name	Hours	Months Valid
			COR 1004S Basic Mathematics and Measurements (Student Access)	4	N/A
			COR 1005 Fractions-Decimals-Percents-Angles I	4	N/A
			COR 1006 Advanced Math- No Online Lessons	4	N/A
			COR 1008 Basic Computing - No Online Lessons	4	N/A
			COR 1017 Advanced Computing - No Online Lessons	5	N/A
			COR 1130C OSHA 30*	30	Permanent
			COR 1165 Temporary Work Platforms - Safety Awareness	32	N/A
			COR 1119C Fall Protection (CERTIFICATION)	8	Permanent
			COR 1121C Scaffold Erector and Dismantler (CERTIFICATION)	8	Permanent
			COR 1125C Aerial Lifts (CERTIFICATION)	8	36
	CI	2000-2099	Coating Applicator Basics	750 - 800	80
			Course Code and Course Name	Hours	Months Valid
			CI 2000 SSPC Applicator Training Basics	40	N/A
			CAS 2800C SSPC C-1 Fundamentals of Protective Coatings (CERTIFICATION)	40	Permanent
			CAS 2804C SSPC C-7 Abrasive Blasting Program (CERTIFICATION)	16	60
			CAS 2805C SSPC C-12 Spray Application (CERTIFICATION)	16	60

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
	CI	2100-2199	Health and Safety Risk Management for the Coatings Inspector	750 - 800	128
			Course Code and Course Name	Hours	Months Valid
			CAS 2802C SSPC C-3 Supervisor/Competent Person Training for Deleading of Industrial Structures (CERTIFICATION)	32	Permanent
			CAS 2803C SSPC C-5 Supervisor/Competent Person Refresher for Deleading/Hazardous Coatings Removal on Industrial and Marine Structures (CERTIFICATION)	8	12
			CI 2100 SSPC Industrial Coatings Safety Management Training (Safety)	24	N/A
			COR 1188 Safety Trained Supervisor Construction (STSC) Exam Prep	4	N/A
			Elective –State-led LEAD course		
	CI	2200-2299	Certified Coatings Inspector	1500 - 2000	96
			Course Code and Course Name	Hours	Months Valid
			CI 2011C AMPP CIP LEVEL I (CERTIFICATION)	60	36
			CI 2006C AMPP CIP LEVEL II (CERTIFICATION)	48	36
			Total	3,032 - 3632	320

Coatings Inspector Course Description



COURSE	DESCRIPTION
Suggested COR Curriculum	<p>Refer to the COR curriculum description pages.</p> <ul style="list-style-type: none"> • COR 1004S Basic Mathematics and Measurements (Student Access) - Hour/s: 4 • COR 1005 Fractions-Decimals-Percents-Angles I - Hour/s: 4 • <i>COR 1006 Advanced Math - No Online Lesson - Hour/s: 4</i> • <i>COR 1008 Basic Computing - No Online Lesson - Hour/s: 4</i> • <i>COR 1017 Advanced Computing - No Online Lesson - Hour/s: 5</i> • COR 1130C OSHA 30* - Hour/s: 30 • COR 1165 Temporary Work Platforms - Safety Awareness - Hour/s: 32 • COR 1119C Fall Protection (CERTIFICATION) - Hour/s: 8 • COR 1121C Scaffold Erector and Dismantler (CERTIFICATION) - Hour/s: 8 • COR 1125C Aerial Lifts (CERTIFICATION) - Hour/s: 8
CI 2000 SSPC Applicator Training Basics	<p>Hour/s: 40</p> <p>The Applicator Training Basics e-course covers the “Core Body of Knowledge” of ACS-1/AMPP 13 requirements for surface preparation and application as well as safety in painting. Taking this course counts toward the required formal training needed to qualify for CAS Certification. However, e-learning does not include any required hands-on training and additional formal training (classroom and hands-on) may be needed to satisfy all of the certification pre-requisites.</p> <p>Course Content</p> <ul style="list-style-type: none"> • CAS 2200 Introduction to Corrosion Theory and Control - cas_2200_v01.zip / __5rBNJqcHkX9_course_id_RES • CAS 2300 Introduction to Surface Preparation • CAS 2303 Abrasives • CAS 2100 Introduction to Industrial Coatings

COURSE	DESCRIPTION
CAS 2800C SSPC C-1 Fundamentals of Protective Coatings (CERTIFICATION)	<p>Hour/s: 40</p> <p>This course provides a practical and comprehensive overview for those who are new to the protective coatings industry. It is also an ideal refresher for reviewing the fundamentals of corrosion and the use of coatings as a protective mechanism against corrosion and deterioration of industrial structures (Certification Period: Permanent).</p> <p>http://www.sspc.org/trn-crs-fundc1 http://www.sspc.org/trn-crs-fundc1e</p> <p>Course Content</p> <ul style="list-style-type: none"> • Corrosion and Corrosion Control • Coating Types and Their Mechanisms and Protection • Surface Preparation for Painting • Application of Coatings • Inspection and Quality Control • Coatings for Steel Structures • Coating Degradation, Defects, and Failures • Coating of Concrete Surfaces • Safety in Painting Operations
CAS 2804C SSPC C-7 Abrasive Blasting Program (CERTIFICATION)	<p>Hour/s: 16</p> <p>C7 is designed for contractor personnel who wish to obtain certification or others who wish to learn about dry abrasive blast leaching of steel. It covers principles of surface preparation, surface cleanliness, surface profile, dust and debris control and abrasives. Note: Students who do not want to receive the C7 Certification can attend and receive a certificate of attendance by only attending the lecture portion of the training and observing the blaster demonstration (Certification Period: 60 months).</p>
CAS 2805C SSPC C-12 Spray Application (CERTIFICATION)	<p>Hour/s: 16</p> <p>This course is designed to train and certify marine/industrial applicators to operate airless spray equipment, incorporating the use of a paint simulator and actual hands-on spraying. While using the simulator you will learn the proper technique for airless spray painting by using a program that simulates real life situations and equipment used in the field (Certification Period: 60 months).</p>

COURSE COURSE	DESCRIPTION DESCRIPTION
CAS 2803C SSPC C-5 Lead Paint Removal Refresher (CERTIFICATION) 8 hours – valid for 12 months	<p>Hour/s: 8</p> <p>The course starts with a review of basic information about lead and the human health hazards associated with it. The course continues with a review and update of relevant EPA regulations and progresses through discussions of 29 CFR 1926.62 and changes in the Respiratory Protection Standard (29 CFR 1910.134). C5 concludes with discussions about control over emissions as presented in SSPC Guide 6. (Certification Period: 12 months).</p> <p>http://www.sspc.org/trn-crs-lprc5</p> <p>Course Content</p> <ul style="list-style-type: none"> • Background Information • Regulatory Update • Worker Protection from Lead and Other Toxic Metals • Control of Environmental Releases
CI 2100 SSPC Health and Safety Risk Management Program	<p>Hour/s: 24</p> <p>This course is designed to provide participants with knowledge and skills necessary to manage safety and health programs in industrial operations. This course is delivered in a format featuring lecture, participant engagement exercises and workshops. The class includes a lecture overview of the essential elements of workplace safety combined with workshops. A written 50-question, multiple-choice exam is given at the conclusion of the course.</p> <p>https://www.sspc.org/industrial-coating-safety-management-training-safety/</p>
COR 1188 Safety Trained Supervisor Construction (STSC) Exam Prep	<p>Hour/s: 4</p> <p>This Safety Trained Supervisor (STS) Construction Prep is an advanced online safety course for construction supervisors and managers who are preparing for the STS Construction Exam. This course will help you prepare to pass the Safety Trained Supervisor certification examination. You will be introduced to the best methods used by construction supervisors to obtain world-class safety performance.</p> <p>This STS Construction Exam Preparation course will provide you with the safety knowledge necessary to perform your role as a construction manager, superintendent or frontline supervisor. This course helps prepare you to take the STS certification exam. When you have passed the STS exam, you will become certified in the minimum competency requirements in the construction industry general safety practices.</p>

COURSE	DESCRIPTION
CI 2011C AMPP CIP Level I (CERTIFICATION)	<p>Hour/s: 60</p> <p>CIP Level 1 covers the technical and practical fundamentals of coating inspection work. Students will be prepared to perform basic coating inspections using non-destructive techniques and instrumentation. This course provides students with knowledge and application of coating materials, along with techniques for surface preparation.</p> <p>Classroom instruction is comprised of lectures, discussions, group exercises and hands-on practical labs (Certification Period: 36 months).</p> <p>Course Content</p> <ul style="list-style-type: none"> • Use of protective coatings to control corrosion • Corrosion fundamentals such as properties of a coating, coating classification, and modes of protection • Coating types and curing mechanisms • Coating specifications including service environments and coating life cycle • Surface preparation equipment, methods and standards for abrasive blasting, solvent cleaning and power and manual tool cleaning • Coating application by brush, roller, mitt, and conventional and airless spray • Role and responsibilities of the inspector including safety, ethics, and conflict prevention and decision making • Inspection procedures and quality control • Purpose and content of a pre-job conference • Test instruments for measurement of environmental or ambient conditions • Non-destructive test instruments • Testing for non-visible contaminants • Quality control issues, recognizing design and fabrication defects and coating failure modes • Material safety data sheets (MSDS) and product technical data sheets • Purpose and content of log book and report documentation
CI 2006C AMPP CIP Level II (CERTIFICATION)	<p>Hour/s: 48</p> <p>CIP Level 2 is a six-day course that focuses on advanced inspection techniques and specialized application methods for both steel and non-steel substrates, including concrete (Certification Period: 36 months).</p> <p>The course provides in-depth coverage of surface preparation, coating types, inspection criteria, lab testing, and failure modes for various coatings, including specialized coatings and linings.</p>



Drywall Finisher

O*NET-SOCCODE: 47-2082.00

RAPIDS CODE: 0561HY

Also known as Taper

Course Competencies

The Program level curriculum builds upon the foundation of the core curriculum skills, knowledge, and abilities. At the program level, occupation-specific standardized curriculum is designed by an ad-hoc committee comprised of the iFTI Curriculum Department, IUPAT/iFTI subject matter experts, employers, manufacturers, and associations.

Apprentices will be assessed on their acquisition of knowledge, skills and abilities in the core curriculum through hands-on and written tests as well as on-the-job learning (OJL) performance measures.

Additionally, the apprentices will integrate their core knowledge, skills and abilities into the pursuit of specific occupation training throughout the term of their apprenticeship. This program specific training is designed to build the technical and professional skills needed by the apprentice to successfully perform his/her trade profession.

Description of Occupation Apprenticeship Program

The Drywall Finisher Apprenticeship Program is co-sponsored by the IUPAT/iFTI to meet the ever-changing needs of the industry and the affiliates it serves. The apprenticeship program ensures that apprentices will learn the theoretical knowledge and the practical skills necessary to be a successful Drywall Finisher. During this program of study, apprentices will successfully complete the IUPAT/iFTI core curriculum and integrate it into the Drywall Finisher occupation specific training. Apprentices successfully completing this program apply their skills and abilities as Drywall Finisher.

In today's workplace, drywall finishers are called upon to complete a variety of tasks and to work in a variety of situations. As new products are developed and new techniques emerge, the apprentices must adapt their skills and develop their knowledge of tools, materials and techniques to complete more challenging tasks within shorter time frames. A Drywall apprentice may work as either an Installer or a Taper or both. Installers may also be called Applicators as their job is to fasten drywall panels to the inside framework of residential houses and other buildings. Tapers, or Finishers, prepare the panels for painting by taping and finishing the joints and imperfections in the drywall surface. A Drywall Decorator will provide a decorative finish to the installed and prepared drywall panels.



Drywall consists of a thin layer of gypsum between two layers of heavy paper. It is both faster and cheaper to install than plaster and is, therefore, widely used today in most buildings on both ceilings and walls.

As a Drywall apprentice, you can expect to do the following jobs:

- Measure, cut, and install materials
- Tape joints and touch up nail holes, scrapes, and other imperfections
- Install corner guards, conceal openings around pipes
- Perform mathematical calculations and read blueprints
- Estimate the cost of installing and finishing drywall
- Provide decorative wall coverings to finished drywall panels





A Drywall Finisher must measure, cut and fit drywall panels around mechanical structures. Once the required fittings are made, the drywall panels are attached to the wood or metal framework using glue, nails or screws. One or more Drywall Finisher apprentices will work together to lift the heavy and cumbersome drywall panels into position to secure them to the framework. Oftentimes, a Drywall Finisher will use a lifting device when placing drywall panels on a ceiling. Drywall panels come in standard sizes such as 4 feet by 8 feet, or 12 feet.

Once the drywall has been securely installed, Tapers fill the joints between panels with a joint compound. Using the wide, flat edge of a hand held trowel, Tapers spread the compound into and along each side of all joints and angles with brush-like strokes. Immediately after spreading the compound, a paper tape is pressed into the wet compound to reinforce the drywall and to smooth away excess compound material. The same compound is also used to cover nail and screw depressions in the panel caused by the installation of mechanical structures.

On large projects, Tapers may use automatic taping tools that apply the joint compound and tape in one step. Of utmost importance in drywall finishing is drying time since drywall compounds require water or vinyl binders that require time for application and cure time to dry. The choice of compounds will affect drying time and finished effect. A hot mud compound can reduce the drying time to between 5 and 90 minutes, but the chemicals it contains could cause undesired effects on the finished wall or ceiling.

Tapers apply second and third coats of the compound, sanding the treated areas where needed after each coat to create a smooth, clean surface on which paint or other wall coverings can be applied. The process for finishing drywall has evolved over many decades and is an overlapping process in which each step or application has an effect on the next step.

When the job requires it, Tapers will apply textured surfaces to walls and ceilings using various finishing techniques and drywall tools

such as trowels, brushes, or spray guns. Drywall Finishers and Decorators sometimes work with materials that are hazardous or toxic, such as when they are required to remove lead-based drywalls.

In the most dangerous situations, Drywall Finishers work in a sealed self-contained suit to prevent inhalation of or contact with hazardous materials.

Once the drywall has been securely installed, Tapers fill the joints between panels with a joint compound. Using the wide, flat edge of a hand held trowel, Tapers spread the compound into and along each side of all joints and angles with brush-like strokes. Immediately after spreading the compound, a paper tape is pressed into the wet compound to reinforce the drywall and to smooth away excess compound material. The same compound is also used to cover nail and screw depressions in the panel caused by the installation of mechanical structures.



Program Level Competencies

With reference to each of the respective areas of the Drywall Finishing occupation, apprentices successfully completing this program will be able to:

- Explore trade options as they pertain to the Drywall Finishing industry.
- Examine principles of Drywall installation and finishing.
- Identify trade-related materials and applications.
- Utilize trade-related tools and equipment.
- Interpret drawings related to the Drywall Finishing occupation.
- Apply trade math calculations.
- Apply the standards of quality control and quality assurance in the Drywall Finishing industry.
- Exemplify the qualities and characteristics necessary to be a leader in the Drywall Finishing industry.

Suggested Program of Study

The IUPAT/IFTI Program of Study for the Drywall Finisher (Taper) Curriculum On-the-Job-Learning (OJL) and Related Instruction (RI) are outlined below. Under this hybrid approach an apprentice must participate in the indicated minimum number of hours of OJL for each category of the program. The Program Sponsor is responsible for determining the number of RI hours that an apprentice must participate in based on the FTI guidance, local needs, and the mandated minimum of 144 hours per year (29 CFR 29.5(b)(4)).

See the table on the next page.

STD CAT	CATEGORY NAME	OJL HOURS	RI HOURS
5.01	Health and Safety for the Drywall Finisher	100-200	40
5.02	Introduction to the Drywall Trade	20-60	40
5.03	Materials of the Drywall Trade	40-100	40
5.04	Tools of the Drywall Trade	40-100	40
5.05	Filling, Taping and Sanding Applications	1450-2450	100
5.06	Automatic Taping Tools	400-750	60
5.07	Advanced Drywall Applications and Systems	400-750	60
		2482-4442	476

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
		1.0-3.0	Core Curriculum	32	96
5.01	DRY	3000-3099	Health and Safety for the Drywall Finisher	100-200	40
			Course Code and Course Name	Hours	Months Valid
			DRY 3000 Finisher Health and Safety Overview	8	N/A
			DRY 3001 Health and Safety Awareness I	8	N/A
			DRY 3002 Health and Safety Awareness II	8	N/A
			DRY 3003 Drywall Capsule	8	N/A
			DRY 3004-3099 Not Yet Assigned		
5.02	DRY	3100-3199	Introduction to the Drywall Trade	20-60	
			Course Code and Course Name	Hours	Months Valid
			DRY 3100 Fundamentals of the Drywall Trade	10	N/A
			DRY 3101 Glossary of the Drywall Trade	10	N/A
			DRY 3102 Pre-Job Inspection	10	N/A
			DRY 3103 Job Economics for the Drywall Trade	40	N/A
			DRY 3104 Thermal Sound Theory Applications	8	N/A
			DRY 3105 Drywall Finisher Special Topics	40	N/A
			DRY 3106-3199 Not Yet Assigned		
5.03	DRY	3200-3299	Materials of the Drywall Trade	40-100	40
			Course Code and Course Name	Hours	Months Valid
			DRY 3200 Materials of the Drywall Trade	40	N/A
			DRY 3201 Drywall Partitions and Ceilings	8	N/A
			DRY 3202 Demountable Partitions	8	N/A
			DRY 3203 Residential Steel Stud Construction	8	N/A
			DRY 3204 Installing Beads and Trims	4	N/A
			DRY 3205-3299 Not Yet Assigned		
5.04	DRY	3300-3399	Tools of the Drywall Trade	40-100	40
			Course Code and Course Name	Hours	Months Valid
			DRY 3300 Tools of the Drywall Trade	40	N/A
			DRY 3301 Metal Cutting	8	N/A
			DRY 3302-3399 Not Yet Assigned		

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	Months Valid
5.05	DRY	3400-3499	Filling, Taping, and Sanding Applications, continued		
			Course Code and Course Name	Hours	Months Valid
			DRY 3401 Hand Embedding Wiping Tapes	16	N/A
			DRY 3402 Filling by Hand	48	N/A
			DRY 3403 Wiping Angle Tapes	10	N/A
			DRY 3404 Specialties of the Drywall Trade I	10	N/A
			DRY 3405-3499 Not Yet Assigned		
5.06	DRY	3500-3599	Automatic Taping Tools	400-750	60
			Course Code and Course Name	Hours	Months Valid
			DRY 3500 Automatic Taping Tools	30	N/A
			DRY 3501 Finishing Boxes	10	N/A
			DRY 3502C AMES Specialties of the Drywall Trade II (CERTIFICATION)	10	Permanent
			DRY 3503 Specialties of the Drywall Trade III	10	N/A
			DRY 3504 Automatic Taping Tools II	10	N/A
			DRY 3505C AMES (CERTIFICATION)	24	60
			DRY 3506-3599 Not Yet Assigned		
5.07	DRY	3600-3899	Advanced Drywall Applications and Systems	400-750	60
			Course Code and Course Name	Hours	Months Valid
			DRY 3600 Repairs and Corrections	24	N/A
			DRY 3601 Trim-Tex Drywall Products	16	N/A
			DRY 3602-3699 Not Yet Assigned (Repairs and Corrections)		
			DRY 3700 Texturing	24	N/A
			DRY 3701 Venetian Plaster	4	N/A
			DRY 3702-3799 Not Yet Assigned (Texturing)		
			DRY 3800 Exterior Insulation and Finishing Systems (EIFS)	12	N/A
			DRY 3801 Suspended Ceilings	4	N/A
			DRY 3802 Partitions and Curtain Walls	8	N/A
			DRY 3803 Raised Access Flooring	8	N/A
			DRY 3804 Level 5 Applications	16	N/A
			DRY 3805 Drywall Art	16	N/A
			DRY 3806C BASWAPHON (CERTIFICATION)	?	Permanent
			DRY 3807 Advanced Drywall Techniques	X	N/A
			DRY 3808 DRY 9 Process Reinforcement Verification		
			DRY 3809-3899 Not Yet Assigned		

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	Months Valid
5.08	DRY	3900- 3999	Evaluation		
Course Code and Course Name				Hours	Months Valid
DRY 3900A Drywall Evaluation (DC 51)				2	N/A
				2482- 4442	476

DRY Course Competencies

This table identifies the course competencies that the Drywall Finisher apprentice will successfully complete.

5.0 DRYWALL FINISHER

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
5.01 HEALTH AND SAFETY AWARENESS	<ul style="list-style-type: none"> Don (put on), doff (remove), inspect, and maintain the proper PPE that should be worn including, but not limited to: <ul style="list-style-type: none"> Head Eyes Hands Feet Face Ears Body Respiratory Perform a job analysis for safe working conditions: <ul style="list-style-type: none"> Attend pre-job safety meetings Read and interpret MSDS Adhere to site specific safety rules and federal regulations Establish and maintain a safe working perimeter Safely demonstrate the proper use and maintenance of drywall tools and equipment. Maintain clean work areas (housekeeping). Store, handle, and transport tools, equipment and materials properly. Identify the locations of First Aid and Fire Equipment. Demonstrate safe work practices for erecting and dismantling scaffolds, including: pre-planning, inspecting scaffold components, load capacity, platform construction, access requirements, and fall protection. Demonstrate a pre-inspection and the safe operation of an aerial lift. Describe and demonstrate the proper use of various types of personal fall protection equipment. Describe and demonstrate the steps of ladder safety, including: selection, inspection, set-up, safe techniques and proper maintenance and storage. Demonstrate and describe the procedures for personally fitting and adjusting, and mounting and dismounting stilts. 	<ul style="list-style-type: none"> Recognize the important areas of OSHA in general terms. Identify the Safety Regulations as they apply to safe work practices in the ICLAS trade with emphasis on: <ul style="list-style-type: none"> Identification of safety hazards (unsafe conditions) Maintenance and safe operation of tools Proper handling of materials, including hazardous PPE Describe the precautions that must be followed when using flammable liquids and adhesives. Explain what a Material Safety Data Sheet (MSDS) is, its purpose and limitation. Describe the role of employer, supplier, and worker in the education of workers. Outline emergency procedures and how to obtain assistance for injured workers. Describe the proper technique (ergonomics) for lifting and transporting drywall materials. Identify safety requirements for erecting and dismantling scaffolds, including: pre-planning, inspecting scaffold components, calculating load capacity, platform construction, access requirements, and fall protection. Identify the different types of aerial lifts and their related safety rules and precautions. Describe potential fall hazards in the workplace. Describe the different types of ladders and the conditions under which they are used. Given illustrations or verbal clues, distinguish between a proper and improper workplace set-up with regard to hazards, safety equipment and stilt selection.

5.0 DRYWALL FINISHER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
5.02 INTRODUCTION TO THE DRYWALL TRADE	<ul style="list-style-type: none"> Demonstrate the characteristics of a professional Drywall Finisher, including: <ul style="list-style-type: none"> Exhibit suitable appearance and personal hygiene. Exhibit proper attitude and behavior on the job site, including private residences and other occupied buildings. Deal with difficult customers in a professional and courteous manner. Read and interpret MSDS Interpret written and verbal instructions. Recognize the importance of cooperation and interaction with related trades on a job site. Demonstrate the ability to follow specific work place protocol and procedures. 	<ul style="list-style-type: none"> Identify and explain the basic terminology used in the drywall trade. Describe the reasons why drywall finishing succeeded over conventional plastering. Describe the working conditions of the drywall trade. Identify the career options and advancement opportunities in the drywall trade. Describe custody, care, and maintenance of tools and equipment.
5.03 MATERIALS OF THE DRYWALL TRADE	<ul style="list-style-type: none"> Differentiate between the lengths, thickness, and widths of drywall panels, including: <ul style="list-style-type: none"> Lengths (6, 8, 9, 10, 12, 14, and 16 feet) Thickness (1/4, 5/16, 3/8, 1/2, 5/8, 3/4, and 1 inch) Widths (24, 48, 54 inches) Differentiate between various types of fillers. Determine that proper lighting is present for all surfaces. Inspect and prepare surfaces and recognize when pre-filling is required. Ensure that adequate ventilation and temperature is maintained for optimum performance. Properly handle, transport, and store drywall materials. Determine the type of compound to use based on the substrate. Determine when it is necessary to use shims in the drywall installation process. Safely use the various types of drywall tools. Locate and prepare mixing area. 	<ul style="list-style-type: none"> Identify the size, types, and application of drywall panels. Identify various types of drywall beads and trims used in the drywall trade. Identify various types of fasteners and adhesives used in the drywall trade (nails and screws). Identify different types of substrates. Identify different fireproof/firestop materials used in the drywall trade. Identify types and applications of various drywall boards, including: <ul style="list-style-type: none"> Standard Water Resistant Interior Ceiling Fire Resistant Exterior Ceiling Panels Foil Back Panels Veneer-based Panels List the advantages and limitations of drywall construction. Explain the various kinds of beads including: <ul style="list-style-type: none"> Metal Paper Faced Metal Plastic Identify different types of framing materials. Identify the various types of drywall compound and the purpose of using compounds. Identify the different types of drywall tape (paper and fiberglass). Identify the tools of the drywall trade, including but not limited to: (see next page)

5.0 DRYWALL FINISHER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
5.04 TOOLS OF THE DRYWALL TRADE	<ul style="list-style-type: none"> • Select and use the proper drywall hand tool for specific tasks. • Display the proper handling and balancing of drywall hand tools. • Modify hand taping tool handles and blades and the process for preparing the tools for proper use. • Explain and demonstrate proper inspection and maintenance procedures for keeping hand taping tools in good and clean condition. • Display the appropriate PPE when using hand taping tools. 	<ul style="list-style-type: none"> ○ Hawk ○ Trowels (straight, curved, specialty) ○ Mud, Pan or Tray ○ Taping Knives and Broad Knives ○ Putty Knives or Elastic Knives ○ Corner Tools ○ Mud Pan Holders and Tape Holders ○ Hammers ○ Phillips Screwdrivers ○ Utility Knives ○ Aviation Style Snips or Tin Snips ○ Sanding Tools ○ Pole Sander ○ Mud Masher or Potato Masher ○ Small Tools ○ Slicker and Straight Edges ○ Texturing Tools ○ Measuring Tape or Tape Rule ○ Cleaning Tools ○ Tool Bag and Tool Boxes ○ 24" Level ○ Combination Square ○ Pocket Plane or Drywall Rasp ○ Mitre Box ○ Chalk Line and Plumb ○ Winder with Braided Nylon (dry line) ○ Pliers, Wrench, Combination Screwdriver ○ Drywall Saw ○ Screw Gun ○ Drill ○ Dimpler Attachment ○ Utility Wet/Dry Vacuum Cleaner ○ Wallboard Hammer
5.05 FILLING, TAPING AND SANDING APPLICATIONS	<ul style="list-style-type: none"> • Demonstrate the different uses for the various filling compounds. • Select and mix the proper filling compounds. • Demonstrate the filling mixing procedures, including pre-mix, powdered, and fast-set fillers. • Demonstrate the three main taping methods, including: <ul style="list-style-type: none"> ○ Hand Taping ○ Mechanical ○ Banjo • Differentiate between paper and fiberglass tape. • Apply fillers using the proper tools in the three main taping methods. • Demonstrate the wiping procedures and sequence for dry taping and wet taping. • Demonstrate the proper procedure, and sequence for wiping non-90° angles. • Follow proper mixing procedures for filling compound. • Demonstrate how to properly apply fireproofing/firestop materials (firetape, fire caulking, and firestop). 	<ul style="list-style-type: none"> • Recognize the general characteristics of fillers. • Identify the correct filler and consistency for the task. • Describe the characteristics, elements, and formulations of filling compounds. • Explain drying times and the relation to temperature, humidity, and ventilation in the finishing process. • Describe the differences between the various fillers. • Identify and describe problems related to moisture and drying. • Identify and describe the three main taping techniques, including: <ul style="list-style-type: none"> ○ Hand Taping ○ Mechanical ○ Banjo • Describe the characteristics of paper tape and fiberglass tape. • Describe the advantages and limitations of paper tape and fiberglass tape. • Describe the hand taping and wiping procedures. • Describe in the proper sequence the dry and wet taping procedures.

5.0 DRYWALL FINISHER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
5.05 FILLING, TAPING, AND SANDING APPLICATIONS, CONTINUED	<ul style="list-style-type: none"> • Correct problems that can arise while wiping angle tapes. • Repair and load flat finishing boxes. • Demonstrate the procedure for filling the following: <ul style="list-style-type: none"> ○ flat joints using flat finishing boxes ○ butt joints using flat finishing boxes ○ ceiling joints using flat finishing boxes • Demonstrate the procedure for filling fasteners using fastener spotters. • Perform the procedure for filling vertical and horizontal angles using angle finishing boxes. • Demonstrate the procedure for filling the following: <ul style="list-style-type: none"> ○ Bottoms ○ Three-ways ○ Non 90° angles • Demonstrate the correct holding position for trowels and knives. • Demonstrate the types and functions of filler coats, including: <ul style="list-style-type: none"> ○ 1st Coat ○ 2nd Coat ○ 3rd Coat ○ Skim Coat (Level 5) • Demonstrate the application of the five (5) levels of drywall finishes. • Distinguish a finish level by observation; identify the steps needed to take it to the next level of finish. • Demonstrate the procedure for wiping angles with a former finish. • Demonstrate how to wipe horizontal, vertical, and three-way angles. • Demonstrate how to clean and maintain wiping equipment. • Demonstrate dry hand sanding and touch up. • Handle and use a pole sander. • Demonstrate dustless sanding. • Select and use the appropriate tools to install beads and trims. • Demonstrate application procedures for measuring and cutting beads and trims. • Demonstrate application of fillers/compounds. 	<ul style="list-style-type: none"> • Identify the problems that can arise while wiping angle tapes. • Identify the tools and equipment used for wiping tapes, including: <ul style="list-style-type: none"> ○ Rollers ○ Angel Finisher ○ Putty and Elastic Knives • Describe the functions and operations of flat finishing boxes, fastener spotters, and angle finishing boxes. • Explain the use of and reasons for flat finishing boxes. • Describe the use of angle finishing boxes. • Identify the correct filler and consistency for the task. • Describe the application of second coat. • Describe the application of third coat (skim coat). • Describe the application of level five (5) finish and round surfaces. • Identify the correct filler and application for spotting screws/nails. • Identify various types of sandpaper and applications. • Identify and describe the different types of beads and trim. • Describe the proper installation of beads and trims. • Identify the correct filler needed for coating.
5.06 AUTOMATIC TAPING TOOLS OF THE DRYWALL TRADE	<ul style="list-style-type: none"> • Demonstrate the automatic taping tool sequence. • Demonstrate the procedures for loading tape in the automatic taping tool. • Demonstrate the operation of the loading pump. 	<ul style="list-style-type: none"> • Identify the various types of automatic taping tools. • Explain the operation of the automatic taping tools. • Discuss the importance of using a teamwork approach to automatic tool taping.

5.0 DRYWALL FINISHER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
5.06 AUTOMATIC TAPING TOOLS OF THE DRYWALL TRADE, CONTINUED	<ul style="list-style-type: none"> Display the proper holding techniques for proper operation and to minimize stress or injuries while using automatic taping tools when taping, including: <ul style="list-style-type: none"> Lower butt joints › Vertical angles Wall flats › Horizontal angles Ceiling flats and butt joints Demonstrate proper inspection and maintenance procedures for keeping automatic taping tools in proper working condition by replacing the cutting blade, cable, and tape and feed needle. Demonstrate the appropriate cleaning procedures for all automatic taping tools. 	<ul style="list-style-type: none"> Explain inspection and maintenance procedures for keeping tools in good and clean condition. Identify common problems and their solutions associated with using automatic taping tools.
5.07 ADVANCED DRYWALL APPLICATIONS AND SYSTEMS	<ul style="list-style-type: none"> Demonstrate the methods for making repairs to common defects. Demonstrate proper mixing procedures and consistency of filling compounds and fast-set fillers. Recognize common defects in drywall finishing. Perform the procedures for repairing the following wallboard defects, including: <ul style="list-style-type: none"> Hollow Areas › Cracks Ridged Joints › Water and Fire Damage ○ Nail Pops, Loose Filler, and › Plaster and Stains Gouges › Textures Demonstrate the proper procedures for repairing beads and trim. Select appropriate tools, equipment, and materials for texturing. Prepare the surface prior to applying texture. Recognize areas that need to be painted prior to applying texture. Apply the various types of hand texture on a surface. Demonstrate the proper use of the various types of texturing machines. Use power compressors, selecting correct orifices and pressures. Repair damaged texture. Clean and maintain texturing tools and machines. 	<ul style="list-style-type: none"> Identify the methods for making repairs in common defects. Describe the methods for repairing gouges and patching holes. Describe the reason and method for keying painted surfaces. Identify and describe the different types of texture (soft, hard, self-priming). Identify protective covering such as polyethylene sheeting, stapled or taped and masked machine. Describe general texture spraying techniques. Describe different types of texture such as knockdown, splatter, skip troweling, Spanish style, brick and stone imitations, and orange peel. Identify the different types of texturing machines. Describe the cleaning procedures for texturing machines. Describe techniques of repairing damaged texture. Describe various types of hand texturing such as one-coat stipple patterns. Explain the basics of Exterior Insulated and Finish Systems (EIFS) theory. Identify properly installed and acceptable substrate materials, conditions, and preparation.

5.0 DRYWALL FINISHER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
5.07 ADVANCED DRYWALL APPLICATIONS AND SYSTEMS, CONTINUED	<ul style="list-style-type: none"> • Select appropriate tools, equipment, and materials for Exterior Insulated and Finish Systems (EIFS). • Recognize and use the proper tools for: <ul style="list-style-type: none"> Adhesive Application › Base Coat Application ○ Expanded Polystyrene (EPS) › Finish Application Cutting and Rasping • Assess and prepare the substrate. • Report any surface deficiencies. • Apply membranes and barriers. • Recognize EPS board, proper mesh embedment, and base coat application. • Install rigid insulation board. • Demonstrate the proper methods of EPS board installation. • Apply base coats and reinforcing mesh. • Apply finish coats. • Locate areas requiring expansion or control joints. • Demonstrate the application of Exterior EIFS accents and aesthetic reveals. • Execute proper mesh embedment and base coat application. • Evaluate and determine a successful finish application based on EIFS manufacturer's requirements. 	<ul style="list-style-type: none"> • Identify the proper tools required for applying EIFS. • Describe proper means of adhesive application and attachment. • Describe the application of different mesh types and how they affect impact resistance. • Describe the procedures for installing building systems that integrate a resinous cladding with a continuous layer of insulation on the exterior of a building or structure.

Drywall Finisher Course Description

COURSE	DESCRIPTION
DRY 3000 Finisher Health and Safety Overview	<p>Hour/s: 8</p> <p>Safety on a job site should be a major concern for anyone working in the drywall finishing trade. Despite regulations and warnings of the authorities in a jurisdiction, a safe working environment can only be achieved by each individual present on a job site. Employers and the individual employees with whom they work must take responsibility to develop safe work habits at all times. No job site is safe without individuals who are aware of their own health and safety. This module provides a general introduction to the various elements of safe work practices and safety on the job site.</p>
DRY 3001 Health and Safety Awareness for the Drywall Finisher I	<p>Hour/s: 8</p> <p>This course provides the Drywall Finisher with industry specific knowledge of safe work practices and safety on the job site.</p>
DRY 3002 Health and Safety Awareness for the Drywall Finisher II	<p>Hour/s: 8</p> <p>This course provides the Drywall Finisher with industry specific knowledge of safe work practices and safety on the job site.</p>
DRY 3003 Drywall Capsule	<p>Hour/s: 8</p> <p>This customized course is designed specifically for the non-drywall finisher who may be expected to complete basic drywall finishing functions while completing trade specific tasks. Students will learn to apply introductory and intermediate knowledge and skills through exposure to the basic materials, tools, concepts and techniques of the drywall trade. Additionally, this course will provide students with an overview of health and safety components specific to the drywall trade.</p>
DRY 3100 Fundamentals of the Drywall Trade	<p>Hour/s: 10</p> <p>This course introduces the drywall industry and the tools of the trade. Students will learn the fundamentals of the drywall industry, the history and scope of the trade, the rules and regulations of the Joint Apprenticeship Training Committees and the role of the apprentice past and present. This introductory course will also help tradesmen not only to identify and select the proper tools for producing an efficient and artistic finish to a job, but also help them learn proper handling of the tools to reduce personal strain to the body.</p>

COURSE

DESCRIPTION

DRY 3101 Glossary of the Drywall Trade

Hour/s: 10

This course provides students to the specific terminology used in the drywall trade.

DRY 3102 Pre-Job Inspection

Hour/s: 10

In this course, the participating Drywall Finisher will become familiar with the various inspections that are needed and codes that must be followed based on recognized national or local building codes and regulations. The most common inspections are conducted on electrical, plumbing, construction framing, and insulation work. Students in this course will be given the skills and knowledge they need to know if inspections have been conducted and passed to ensure their safety and to prevent expensive problems that could occur when work is nearly or fully completed.

DRY 3103 Job Economics for the Drywall Trade

Hour/s: 40

Efficiency on the job site is a combination of thorough planning, quality workmanship and speed. This combination also ensures a cost effective job. By the completion of this module the Students should have a foundation by which they can apply their skills and knowledge to efficiently perform the objectives. Some of those objectives are as follows: explain the factors that must be considered when determining the methods of taping and filling to use on a specific job; explain the factors to be considered to ensure the efficient use of materials; explain the elements in the floor plan provided in the module; explain what an architectural section provides and how it relates to the work of a drywall finisher; explain the purpose and elements of finish schedules and specifications; and explain the functions and elements of national and local building codes and manufacturer's specifications.

DRY 3104 Thermal Sound Theory Applications

Hour/s: 8

This course provides a basic overview of noise control and absorption materials and discusses the different installation methods.

DRY 3105 Drywall Finisher Special Topics

Hour/s: 40

This course is used to provide in-class and hands-on training on special topics in the Drywall Finisher Trade.

Note: Course content for this course is at the discretion of the instructor.



COURSE**DESCRIPTION****DRY 3200 Materials of the Drywall Trade**

Hour/s: 40

This course is designed to provide a working knowledge of filling compounds and the various materials used in the construction of drywall. Students will also learn the proper procedure for pre-inspecting a job site to ensure that lighting, pre-filling, personal protective equipment and all tools; equipment and materials are available and properly prepared for use on a job.

DRY 3201 Drywall Partitions and Ceilings

Hour/s: 8

The Drywall Tradesman should be familiar with various ceilings, partition materials as well as accessories. For instance, gypsum ceiling tiles, mineral fiber ceiling, aluminum ceiling tiles, glass wool ceiling, rock wool ceiling, calcium silicate ceiling (board), PCV ceiling (panel, suspension ceiling grid (T-bar), gypsum board, drywall system, etc.

DRY 3202 Demountable Partitions

Hour/s: 8

Demountable and movable partitions are used in areas susceptible to future partition rearrangement. Compared to traditional drywall construction, installation of these partitions is faster and eliminates the cost and mess of cutting and fitting carpet and ceilings around fixed walls.

DRY 3203 Residential Steel Stud Construction

Hour/s: 8

Steel framing is a practical, code approved solution to many of the limitations that builders face today when using traditional building materials. This course discusses the long term maintenance costs, performance and green sustainability. The strength and ductility of structural cold-formed steel (CSF) framing and indoor air quality (IAQ) because steel does not emit Volatile Organic Compounds (VOCs) will also be discussed.

DRY 3300 Tools of the Drywall Trade

Hour/s: 40

The proper selection and use of tools for a job provides the Drywall Finisher the ability to produce a more efficient and artistic finish to a job. This course will not only help tradesmen to identify the tools and its parts but also help them learn proper handling of the tools in reducing personal strain to the body. They will also learn to recognize quality tools and identify which tools are appropriate for certain jobs, how to modify tools to fit a job, and how to prepare the blade of a taping knife or trowel.

DRY 3204 Installing Beads and Trims

During this module, students will learn how to properly install beads to create smooth corners and intersections on the corners of walls and trims to close seams, shape walls and connect the wall and ceiling. Skills and knowledge gained will include plumbing a bead or trim, measuring and cutting a bead, applying corner beads, and attaching corner beads using various tools such as fasteners, pan and knife, hopper and corner rollers.

COURSE**DESCRIPTION****DRY 3301 Metal Cutting**

Hour/s: 8

Metal fabrication is an integral part of the trade. Participants will review different aspects of architectural metals such as aluminum, brass, stainless steel, and steel, or other related metals that are used in construction of buildings and storefronts. Everything from sill flashings to the top of the parapet cap will be discussed.

DRY 3400 Filling Compounds

Hour/s: 16

There are many types and uses for filling compounds. Various factors of a job site, including climate conditions, materials used, and purpose will determine the type of filling compound that will be used. This module will provide detailed information on the characteristics, formulations, types, and uses of filling compound. Students will also describe the operation of mixing fillers and also be able to explain water absorption, filler problems, drying times and other factors that affect the finishing process.

DRY 3401 Hand Embedding/Wiping Tapes

Hour/s: 16

Taping is the process of gluing or adhering paper or fiberglass tape over wallboard joints to reinforce the joints and provide a smooth surface for applying further coats of filler. In this course, Students will demonstrate the taping process using the dry taping method, hopper tape and banjo tape method. Students will also learn to recognize the proper application of tape and be able to troubleshoot problems with tape that did not adhere or wipe properly.

DRY 3402 Filling by Hand

Hour/s: 48

This course will focus on more advanced techniques for applying tape and filling various surfaces during first, second and third coatings. Students will learn the trowel and broad knife methods of filling by hand and will be able to choose the proper method for filling surfaces such as rounded surfaces, ceilings, walls, angles, joints and beads.

DRY 3403 Wiping Angle Tapes

Hour/s: 10

In this course, the apprentice will learn how to properly use the tools and equipment and describe the method for wiping tapes. In addition, the apprentice will be given the knowledge necessary to identify and correct common problems that can arise while wiping angle tapes.

COURSE

DESCRIPTION

DRY 3404 Specialties of the Drywall Trade I

Hour/s: 10

Students will learn the assembly, use, and clean-up required for the tape application and finishing systems presented by Better-than-Ever Tools or similar industry recognized manufacturer. Hands-on applications during this course will give the Drywall Tradesmen an introduction to the use of the tools. Students will experience not only how these tools may improve the quality and efficiency of taping and finishing work, but also how each system's tools and techniques may increase productivity and income while feeling the physical benefits of using these ergonomically designed tools.

DRY 3500 Automatic Taping Tools

Hour/s: 30

Automatic Taping Tools are the most commonly used methods of taping in the Drywall industry. Students will gain hands on experience while learning the parts, functions, safety, and maintenance procedures for using automatic taping tools. These experiences will also include the operation of the loading pump, loading procedures, proper holding techniques and the taping sequence.

DRY 3501 Finishing Boxes

Hour/s: 10

This module explores the advantages of using boxes for filling. Boxes increase the speed by which the filling is applied to joints and angles. Students will have the opportunity to demonstrate and describe the functions, operations and procedures for using flat and angle finishing boxes. Box-finishing gives a more uniform looking finish and is more economical for most jobs because it can be applied quickly.

DRY 3502C AMES Specialties of the Drywall Trade II (CERTIFICATION)

Hour/s: 10

Students will learn the assembly, use, and clean-up required for the tape application and finishing systems presented by Ames Tools Inc., or a similar industry recognized manufacturer. Hands-on applications during this course will give the Drywall Tradesmen an introduction to the use of the tools. Students will experience not only how these tools may improve the quality and efficiency of taping and finishing work, but also how each system's tools and techniques may increase productivity and income while feeling the physical benefits of using these ergonomically designed tools (Certification Period: Permanent).

Member Card Abbreviation: AMES DRY TRADE SPECIALTIES II

COURSE

DESCRIPTION

DRY 3503 Specialties of the Drywall Trade III

Hour/s: 10

Students will learn the assembly, use, and clean-up required for the tape application and finishing systems presented by Apla-Tech or a similar industry recognized manufacturer. Hands-on applications during this course will give the Drywall Tradesmen an introduction to the use of the tools. Students will experience not only how these tools may improve the quality and efficiency of taping and finishing work, but also how each system's tools and techniques may increase productivity and income while feeling the physical benefits of using these ergonomically designed tools.

DRY 3504 Automatic Taping Tools II

Hour/s: 10

In this course students will build upon their hands on experience while learning the parts, functions, safety, and maintenance procedures for using automatic taping tools. These experiences will also include the operation of the loading pump, loading procedures, proper holding techniques and the taping sequence.

DRY 3505C AMES (CERTIFICATION)

AMES Taping Tools Incorporated and TapeTech Tool Company have worked closely with the Finishing Trades Institute for many years. This partnership has provided our union membership and training facilities with the latest drywall tool finishing technologies and techniques.

The FTI and AMES have partnered to offer our members a new certification in the AMES Automatic Taping and Finishing Tool program. The objective of this program is to provide a consistent, thorough, and sustainable certification training program to individuals who will transfer the knowledge of Automatic Taping and Finishing (ATF) tool skills to our local training facilities throughout the U.S. and Canada (Certification Period: 60 months).

DRY 3600 Repairs and Corrections

Hour/s: 24

This course outlines the types of repairs finishers are called upon to make. Students will work to master objectives that will help them to analyze a finished product for needed repairs and determine how those repairs are best completed. Following the lessons on drywall repairs, the students will be exposed to texturing processes.

DRY 3601 Trim-Tex Drywall Products

Hour/s: 16

This program is a two-day training course designed to educate Union Trainers on Trim-Tex products and the proper method to install them.

COURSE**DESCRIPTION****DRY 3700 Texturing**

Hour/s: 24

In this course students will be exposed to texturing processes. Texturing refers to the creation of a decorative surface on walls and ceilings using a variety of tools, procedures and materials. Students will gain the skills and knowledge they need to be able to identify powdered and pre-mix forms, aggregated and non-aggregated materials and select the appropriate texture materials for properly applying hard and soft textures using spray or hand applications.

DRY 3701 Venetian Plaster

This 4-hour course will provide students with a basic knowledge of venetian plaster products, their applications, measuring and layout, tools needed, and the different styles of venetian plaster that is available. Upon completion of the classroom portion, students will get a chance to do a basic venetian plaster hands on project.

DRY 3800 Exterior Insulation and Finishing Systems (EIFS)

Hour/s: 12

Exterior Insulation and Finish Systems, EIFS, are finishing products that have been used successfully in Europe and North America for more than 40 years. Students in this course will gain and apply their knowledge through the history and theory of EIFS and develop the special skills to properly use and install these highly specialized products. They will also learn to recognize the components of the products and its characteristics for which it is known, i.e., architectural flexibility, low maintenance and energy saving potential, light weight and user friendly characteristics. Students will be able to evaluate and determine that all requirements have been met for successful finish application of EIFS.

DRY 3801 Suspended Ceilings

Hour/s: 4

This course covers the different types of ceiling systems and their different applications will be discussed to include their acoustical value and ventilation characteristics.

DRY 3802 Partitions and Curtain Walls

Hour/s: 8

This course will deal with curtain partitions and how each are made to customer's specifications using a variety of materials, configurations, and colors. Curtains can be used for the following uses: confinement of contaminants, a cleaner work environment, and separation of work areas.

DRY 3803 Raised Access Flooring

Hour/s: 8

This course will cover the procedures required to install access floor products for office and equipment room applications. Typically, equipment room applications require access floor panels supported by an under-structure system using stringers, where office installations may not.

COURSE

DESCRIPTION

DRY 3804 Level 5 Applications

Hour/s: 16

Students will gain the skills and knowledge they need to be able to accurately describe the adaptive use of materials and accessories to enhance the standard flat and squared edged world of drywall. Drywall art can be found in a variety of forms, including decorative archways, rounded edges, and even reveal effects such as shelves and stepped ceilings. The possibilities of what the learner creates are only limited to their creativity.

DRY 3805 Drywall Art

Hour/s: 16

Students will gain the skills and knowledge they need to be able to identify the Levels of Finish, premixed and additive materials and select the appropriate materials, various application methods and their standard operating procedures for properly applying level.

DRY 3806C BASWAPHON (CERTIFICATION)

Hour/s: XX

Introduction and application of BASWAPHON (Certification Period: Permanent).





Floor Coverer

O*NET-SOCCODE: 47-2042.00

RAPIDS CODE: 0199HY

Also known as Floor Layer

Course Competencies

The Program level curriculum builds upon the foundation of the core curriculum skills, knowledge, and abilities. At the program level, occupation-specific standardized curriculum is designed by an ad-hoc committee comprised of the FTI Curriculum Department, IUPAT/IFTI subject matter experts, employers, manufacturers, and associations.

Apprentices will be assessed on their acquisition of knowledge, skills and abilities in the core curriculum through hands-on and written tests as well as the OJL performance measures.

Additionally, the apprentices will integrate their core knowledge, skills and abilities into the pursuit of specific craft training throughout the term of their apprenticeship. This program specific training is designed to build the technical and professional skills needed by the apprentice to successfully perform his/her trade profession.

Apprenticeship Program

The Floor Coverer Apprenticeship Program is co-sponsored by the IUPAT/IFTI to meet the ever-changing needs of the industry and the affiliates it serves. The apprenticeship program ensures that apprentices will learn the theoretical knowledge and the practical skills necessary to be a successful Floor Coverer. During this program of study, apprentices will successfully complete the IUPAT/IFTI core curriculum and integrate it into the Floor Coverer craft specific training. Apprentices successfully completing this program apply their skills and abilities as Floor Coverer.



Description of Occupation

Floor Coverers generally work indoors and provide a basic flooring function. Floor Coverers add decorative qualities to their finished work that enhances the appeal of the building. Work is typically done in homes, offices, hospitals, stores, restaurants, and in many other structures. Floor Coverers (carpet installers, floor installers and floor layers, and floor sanders and finishers) will each learn the tools of their specific flooring trade. Workers in the floor covering trade must be able to work with plans and/or blueprints and apply math skills to measure, purchase, and install the materials for the best possible finished floor. Workers in this trade must also be able to inspect floor surfaces for imperfections and know how to correct the flaw prior to beginning the job. Safe work habits are also emphasized in this trade.



Training/Skill Set

The Flooring industry uses Apprenticeship Training as its greatest opportunity to expand the workforce. People with limited or no experience in the flooring industry can use the available apprenticeship program as a catalyst to becoming a qualified journey worker in the trade.

The flooring curriculum and training will provide the skills, knowledge, and abilities needed to meet the needs of the industry and to ensure that each worker is equipped to use the technology, materials, and applicable methods of installation as well as adhering to all quality and safety standards on the job. Floor Coverers learning their trade through an apprenticeship program will receive relevant classroom training as well as OJL and experience.

The OJL may include tasks such as preparing surfaces to receive flooring, installing stripping and padding, stretching newly installed carpet, and using tools of the trade. They will progress to learning how to cut and install the various floor coverings. Skills needed to become carpet and floor finishers include manual dexterity, eye-hand coordination, physical fitness, and a good



sense of balance and color. The ability to solve arithmetic problems quickly and accurately is also needed. As a supervisor, salesperson or estimator, carpet and floor finishers should be able to identify and estimate the quantity of materials needed to complete a job, accurately estimate how long a job will take to complete, and compute the cost of the job.

Emphasized early in the apprentice's career is adherence to and knowledge of OSHA standards for personal safety; safety on the job site; and proper handling of tools, materials and equipment. Additionally, the apprentice will discuss safe work practices when working with flooring materials and various obstacles that may be encountered on the job, such as moving and lifting heavy objects.

Working Environment

Floor Coverers generally work indoors and have regular daytime hours. When the job has them working in an office or occupied store, then they may be required to work evenings and weekends to avoid disruption of the business to its customers and/or employees.

Although the work is labor intensive, the conditions under which Floor Coverers typically work are favorable since most construction has been completed and the work area is relatively clean and uncluttered.



Program Level Competencies

With reference to each of the respective areas of the Floor Covering occupation, apprentices successfully completing this program will be able to:

- ✓ Explore trade options as they pertain to the floor covering industry.
- ✓ Identify trade-related materials and applications.
- ✓ Distinguish between the various floor covering installation materials and applications.
- ✓ Install, repair and replace floor covering materials.
- ✓ Utilize trade-related tools and equipment.
- ✓ Interpret drawings related to the floor covering trade.
- ✓ Apply math calculations related to the floor covering trade.
- ✓ Demonstrate the proper measurement, preparation, and installation methods of the floor covering industry.
- ✓ Apply the standards of quality control and quality assurance in the floor covering industry.
- ✓ Exemplify the qualities and characteristics necessary to be a leader in the floor covering industry.

Suggested Program of Study

The IUPAT/IFTI Program of Study for the Floor Coverer Curriculum On-the-Job-Learning (OJL) and Related Instruction (RI) is outlined below. Under this hybrid approach an apprentice must participate in the indicated minimum number of hours of OJL for each category of the program. The Program Sponsor is responsible for determining the number of RI hours that an apprentice must participate in based on the FTI guidance, local needs, and the mandated minimum of 144 hours per year (29 CFR 29.5(b)(4)).

STD CAT #	CATEGORY NAME	OJL HRS	RI HRS
6.01	Health and Safety for the Floor Coverer	100-200	40
6.02	Introduction to the Floor Covering Trade	200-300	40
6.03	Floor Preparation	800-1000	40
6.04	Materials & Tools of the Floor Covering Trade	200-500	40
6.05	Installation Methods for Resilient Floor Covering	1000-1400	80
6.06	Installation Methods for Laminate and Hardwood Flooring	800-1200	60
6.07	Installation Methods of Carpet & Synthetic Turf	1000-1400	80
		4132-6032	476

See table on the next page.

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS			
6.01	FLR	4000-4099	1.0-3.0 Core Curriculum	32	96			
			Health and Safety for the Floor Coverer	100-200	40			
			Course Code and Course Name	Hours	Months Valid			
			FLR 4000 Health and Safety Awareness I	32	N/A			
			FLR 4001 Health and Safety Awareness II	8	N/A			
			FLR 4002-4099 Not Yet Assigned					
6.02	FLR	4100-4199	Introduction to the Floor Covering Trade	200-300	40			
			Course Code and Course Name	Hours	Months Valid			
			FLR 4100 Introduction to the Floor Covering Trade FLR 4100A Floor Covering Basic (Assessment Only)	8	N/A			
			FLR 4101 Introduction to Sheet Goods	8	N/A			
			FLR 4102 Measuring and Estimating	8	N/A			
			FLR 4103 Top Set Cove	8	N/A			
			FLR 4104 Glossary for the Floor Covering Trade	8	N/A			
			FLR 4105 Floor Coverer Special Topics	40	N/A			
			FLR 4106 CFI Hand Sewing and Pattern Correction	40	N/A			
			FLR 4107 CFI Residential Stair and Carpet Restoration	32	N/A			
						FLR 4108-4199 Not Yet Assigned		
			6.03	FLR	4200-4299	Floor Preparation	800-1000	40
						Course Code and Course Name	Hours	Months Valid
FLR 4200 Surface Preparation	16	N/A						
FLR 4201 Specialties of the Floor Covering Trade I	16	N/A						
FLR 4202C ARDEX Concrete Toppings and Coatings (CERTIFICATION)	20	Permanent						
FLR 4203C Epoxy Concrete Toppings and Coatings (CERTIFICATION)	20	Permanent						
FLR 4204 Introduction to ARDEX	4	N/A						
FLR 4205C Spartacote (CERTIFICATION)	8	Permanent						
FLR 4206 Sand and Finish Safety (NWFA)	2.5	N/A						
FLR 4207 Sanding Equipment Operation (NWFA)	.5	N/A						
FLR 4208 Sanding Equipment Maintenance (NWFA)	.5	N/A						
FLR 4209 Abrasives (NWFA)	2	N/A						
FLR 4210 Sanding Process (NWFA)	5	N/A						
FLR 4211 Finishes (NWFA)	.5	N/A						
FLR 4212 Colorants (NWFA)	2.5	N/A						
FLR 4213 Hand Scraping - Wire Brushing and Distressed Wood Floors (NWFA)	.5	N/A						
FLR 4214 Evaluating Wood Floor Damage (NWFA)	.5	N/A						
FLR 4215 Finishing Process (NWFA)	1.5	N/A						

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
6.03	FLR	4200-4299	Floor Preparation, continued	800-1000	40
			Course Code and Course Name	Hours	Months Valid
			FLR 4216 Recoating a Previously Finished Wood Floor (NWFA)	.5	N/A
			FLR 4217 Care and Maintenance (NWFA)	1.5	N/A
			FLR 4218 Sanding-Filler- Finish Irregularities (NWFA)	.5	N/A
			FLR 4219 Jon Don Concrete Surface Preparation and Polishing	X	N/A
			FLR 4220 ARDEX Flooring	20	N/A
			FLR 4221 ARDEX Specialties of Floor Covering	24	N/A
			FLR 4222-4299 Not Yet Assigned	X	N/A
6.04	FLR	4300-4399	Materials & Tools of the Floor Covering Trade	200-500	40
			Course Code and Course Name	Hours	Months Valid
			FLR 4300 Materials and Tools of the Floor Covering Trade	20	N/A
			FLR 4301 Special Jobs	20	N/A
			FLR 4302-4399 Not Yet Assigned		
6.05	FLR	4400-4499	Installation Methods for Resilient Floor Covering	1000-1400	80
			Course Code and Course Name	Hours	Months Valid
			FLR 4400 Tile Layout and Installation	20	N/A
			FLR 4400A Tile Layout and Safety Floors (Assessment Only)		
			FLR 4401 Safety Floors	20	N/A
			FLR 4402 FORBO Specialties of the Floor Covering Trade II	20	N/A
			FLR 4403 Specialties of the Floor Covering Trade III	20	N/A
			FLR 4404C Armstrong Installation (CERTIFICATION)	20	Permanent
			FLR 4405 Resilient Tile Installation and the Use of Math	3	N/A
			FLR 4406C MONDO Sport Flooring (CERTIFICATION)	24	24
			FLR 4407 Innovations4Flooring (I4F)	8	N/A
			FLR 4408-4499 Not Yet Assigned	N/A	N/A
6.06	FLR	4500-4599	Installation Methods for Laminate and Hardwood Flooring	800-1200	60
			Course Code and Course Name	Hours	Months Valid
			FLR 4500 Laminate Flooring	30	N/A
			FLR 4501 Hardwood Flooring	30	N/A
			FLR 4502 Floor Installation	2	N/A
			FLR 4503 Installation Safety (NWFA)	18	N/A
			FLR 4504 Jobsite Evaluation (NWFA)	18	N/A

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
6.06	FLR	4500-4599	Installation Methods for Laminate and Hardwood Flooring, continued	800-1200	60
			Course Code and Course Name	Hours	Months Valid
			FLR 4505 Subfloor Preparation (NWFA)	16	N/A
			FLR 4506 Forest to Floor (NWFA)	2	N/A
			FLR 4507 Wood Moisture Testing (NWFA)	2	N/A
			FLR 4508 Concrete Moisture Testing (NWFA)	2	N/A
			FLR 4509 Layout (NWFA)	2	N/A
			FLR 4510 Nail Down Installation (NWFA)	2	N/A
			FLR 4511 Glue-Down Installation (NWFA)	2	N/A
			FLR 4512 Installation Methods and Considerations (NWFA)	26	N/A
			FLR 4513 Board Replacement (NWFA)	2	N/A
			FLR 4514 Patterned Floor Layout (NWFA)	2	N/A
			FLR 4515 Install Repairs (NWFA)	12	N/A
			FLR 4516 NWFA	40	N/A
			FLR 4517-4699 Not Yet Assigned		
6.07	FLR	4600-4899	Installation Methods of Carpet & Synthetic Turf	1000- 1400	80
			Course Code and Course Name	Hours	Months Valid
			FLR 4600 Introduction to the Carpet Industry	12	N/A
			FLR 4601 Installation Tools and Equipment	12	N/A
			FLR 4602 Floor Preparation	12	N/A
			FLR 4603 Carpet Installation	12	N/A
			FLR 4604 Carpet Installations: Woven and Patterned	12	N/A
			FLR 4605 Vinyl Back Carpet and Carpet Tiles	12	N/A
			FLR 4606 Field Turf Installation	8	N/A
			FLR 4606A Carpet and Synthetic Turf (Assessment Only)		
			FLR 4607-4699 Not Yet Assigned		
				4132-6032	476
6.10	FLR	4900-4899	Evaluation		
			Course Code and Course Name	Hours	Months Valid
			FLR 4900A Floor Covering Installer Apprenticeship Program (Assessment Only)	2	N/A

FLR Course Competencies

This table identifies the course competencies that the Floor Coverer apprentice will successfully complete.

6.0 FLOOR COVERER

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
6.01 HEALTH AND SAFETY AWARENESS	<ul style="list-style-type: none"> Don (put on), doff (remove), inspect, and maintain the proper PPE that should be worn including, but not limited to: Perform a job analysis for safe working conditions: <ul style="list-style-type: none"> Attend pre-job safety meetings Adhere to site specific safety rules and federal regulations Observe Vessel Entry/ Confined Space regulations Read and interpret MSDS Establish and maintain a safe working perimeter Safely demonstrate the proper use and maintenance of floor covering tools including, but not limited to: <ul style="list-style-type: none"> Attend pre-job safety meetings Observe Vessel Entry/ Confined Space regulations Basic Tools › Straight Edges Fastening Tools › Trowel Scribers › Spreaders Cutting Tools › Power Tools Hand Saws Head Eyes Hands Feet Face Ears Body Respiratory Maintain clean work areas (housekeeping). Store, handle, and transport tools, equipment and materials properly (including forklift operation). Identify the locations of First Aid and Fire Equipment. 	<ul style="list-style-type: none"> Recognize the important areas of OSHA in general terms. Identify the Safety Regulations as they apply to safe work practices in the floor covering trade with emphasis on: <ul style="list-style-type: none"> Identification of safety hazards (unsafe conditions) Maintenance and safe operation of tools Proper handling of materials, including hazardous PPE Describe the precautions that must be followed when using flammable liquids and adhesives. Explain what a Material Safety Data Sheet (MSDS) is, its purpose and limitation. Describe the role of employer, supplier, and worker in the education of workers. Outline emergency procedures and how to obtain assistance for injured workers. Describe the proper technique (ergonomics) for lifting and transporting floor covering materials.

6.0 FLOOR COVERER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
6.02 INTRODUCTION TO THE FLOOR COVERING TRADE	<ul style="list-style-type: none"> Demonstrate the characteristics of a professional Floor Coverer, including: <ul style="list-style-type: none"> Exhibit suitable appearance and personal hygiene. Exhibit proper attitude and behavior on the job site, including private residences and other occupied buildings. Deal with difficult customers in a professional and courteous manner. Interpret written and verbal instructions. Recognize the importance of cooperation and interaction with related trades on a job site. 	<ul style="list-style-type: none"> Identify and explain the basic terminology used in the floor covering trade. Identify the historical events of the modern floor covering trade. Describe the working conditions of the floor covering trade. Identify the career options and advancement opportunities in the floor covering trade. Differentiate between the various materials used in the floor covering trade, including resilient, carpet, laminate, hardwood, moldings, adhesives, and underlay. Describe custody, care, and maintenance, of tools and equipment.
6.03 FLOOR PREPARATION	<ul style="list-style-type: none"> Recognize the different types of substrates in the floor installation process. Conduct a moisture test on a given substrate. Prepare substrate depending on grade level and type of flooring materials to be installed. Identify substrate defects and describe how to resolve them. Demonstrate the methods of cleaning, priming, patching, and leveling substrates. Inspect substrates and recognize conditions that will impact final flooring product installation. Demonstrate proper sanding, scraping, sweeping, and filling procedures to receive any type of flooring. Observe manufacturer's HVAC recommendation for installation area. 	<ul style="list-style-type: none"> Identify the different types of substrates. Define grade level and explain its importance in floor covering. Identify the types of moisture issues on various substrates and explain why moisture tests are made on substrates. Determine how to prepare new concrete floors before installing floor coverings. Define curing and parting compounds and explain their uses. Determine the use of a primer in the floor covering installation process. Identify the minimum clearance for ventilated suspended concrete floors. Identify the minimum drying time for new concrete. Explain the importance of underlayment's in floor covering installation process. List and identify the types of board underlayment (hardboard, plywood, and particle board). Explain the issues with installing new floor covering over existing floor covering. Describe the methods to re-do an existing coved floor. Determine the coarseness used for sanding strip wood floors. Describe the hazards of removing existing floors.

6.0 FLOOR COVERER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
6.04 MATERIALS AND TOOLS OF THE FLOOR COVERING TRADE	<ul style="list-style-type: none"> Recognize the problems a Floor Coverer may encounter with the different types of floors used in the floor covering industry, including: <ul style="list-style-type: none"> On Grade or Below Grade Concrete Floors Suspended Concrete Floors Magnesite Floors Floors with Asphaltic Underlayment or Lightweight Aggregate Wood Floors Nonporous Surfaces Differentiate between the different types of resilient floor coverings. Recognize the advantages of resilient floor coverings. Differentiate between the different types hardwood floors. Determine the appropriate type of trim to use when resilient floor coverings are a different thickness. Properly install the appropriate trim product. Demonstrate the proper procedure(s) for applying the appropriate adhesive, primers, and sealers. Provide adequate ventilation when using adhesives, primers, and sealers. Perform the proper procedure for installing the appropriate underlayment for a given floor installation. Demonstrate the appropriate techniques for installing a floor system over concrete. Safely use the various types of basic hand tools, special hand tools, cutting tools, miscellaneous tools, and power tools. 	<ul style="list-style-type: none"> Identify and describe the characteristics of the different types of resilient floor covering, including: <ul style="list-style-type: none"> Linoleum Homogenous PVC Sheet Vinyl Inlaid Sheet Vinyl Rotovinyl Cushioned Sheet Vinyl Resilient Tile (soft tile) Asphalt Tile Vinyl Composition Tile (VCT) Cork Tile Rubber Tile Identify the different types of safety flooring and where it is appropriate to install them. Identify the three distinct layers in all laminate flooring (surface, core, backing). Identify the different types of hardwood floors, including: <ul style="list-style-type: none"> Solid Engineered Parquet Floating Longstrip Exotic Hand scraped Name the three classifications of Electrostatic Discharge (ESD) control flooring. Identify the different types of carpet including backings, surface fibers, and their properties (wool, nylon, acrylics, polypropylene, polyester, recycled, synthetic turf). Identify and describe the various types of trim products used in the floor covering industry, including: <ul style="list-style-type: none"> Cap Moldings Cove rim (cove metal trim) Transitional Metal Finish Metal Cove Base Fittings Binder Bar Stair Nosing Identify the various types of adhesives used in the floor covering industry, including: <ul style="list-style-type: none"> Water-Soluble Paste Asphalt-based Adhesives Epoxy Cements Adhesives for Sheet Vinyl (multipurpose adhesives, acrylic latex adhesives, and perimeter floor adhesives) Adhesives for Vinyl Composition Tile (thin spread, contact cement, cove base cement, pressure sensitive cement) Eco-friendly

6.0 FLOOR COVERER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
6.04 MATERIALS AND TOOLS OF THE FLOOR COVERING TRADE CONTINUED		<ul style="list-style-type: none"> • Explain the significance of Primers and Sealers when applying adhesives. • Identify and describe the different types of underlayment and their properties that are commonly used in the floor covering industry, including: <ul style="list-style-type: none"> ▫ Plywood ▫ Hardboard ▫ Lining Felt ▫ Composition Felt ▫ Concrete • Identify and describe the basic hand tools used in the floor covering industry, including: <ul style="list-style-type: none"> ▫ (adjustable wrenches, awls, broad knives, chalk lines, chisels, duster brushes, files, hammers, knives, nail sets, pliers, push brooms, saws, screwdrivers, steel squares, tapes, tin snips/aviation shears, trowels, etc.) • Identify and describe the special hand tools used in the floor covering industry, including: <ul style="list-style-type: none"> ▫ Fastening Tools (spot nailer, power nailer, hammer staples, brad pusher, special hammers, electric tacker, etc.) ▫ Scribes (divider type scribe, under scribe, hinged scribe, bar scribe, outside corner scribe, pin vise, etc.) ▫ Cutting Tools (linoleum knife, hook knife, rubber cove base cutter, tile cutter, metal miters, miter boxes, etc.) ▫ Miscellaneous Special Tools (straightedges, base shoe lifters, scrapers, rollers, trowels & spreaders, torches & heat guns, moving equipment, tile scooter, knee kicker, power stretcher, etc.) • Identify and describe the power tools used in the floor covering industry, including: <ul style="list-style-type: none"> ▫ sander, strippers, buffers, drills, circular saws, vacuum cleaners, air compressors, hot metal glue guns, wood routers, special routers, soldering guns, hot air welders, heat blow guns, air sled, hot melt seaming iron, etc.

6.0 FLOOR COVERER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
6.05 INSTALLATION METHODS FOR RESILIENT FLOOR COVERING	<ul style="list-style-type: none"> • Demonstrate the measuring procedures to determine the required amount of materials needed for installation of all types of resilient flooring. • Demonstrate the layout and installation procedures to properly install manufacturer's material. • Demonstrate installation techniques for various types of resilient flooring including but not limited to safety flooring, rotovinyl, linoleum, rubber, cork, VCT, PVC, sheet vinyl, and vinyl conductive. • Select and safely use the appropriate tools to install resilient floor coverings. • Demonstrate knowledge of adhesive and substrate compatibility. • Demonstrate knowledge of proper trowel notch sizes as recommended by product manufacturers. • Demonstrate knowledge of proper cutting, fitting and seaming for various resilient flooring methods including pattern scribing (self-coving). • Demonstrate knowledge of proper installation and fitting of top-set cove base. • Demonstrate knowledge of proper job completion skills. • Observe manufacturer's HVAC recommendations for installation area. • Demonstrate heat welding techniques and skills. • Demonstrate techniques and skills for proper repair and replacement procedures. • Demonstrate knowledge of proper job completion skills. • Successfully complete the requirements for industry recognized manufacturer training and certifications, such as FORBO, Armstrong, ARDEX, Henry, Shaw, Mohawk, Tarkett, Nora Rubber, etc. 	<ul style="list-style-type: none"> • Identify and describe the characteristics of the different types of resilient floor covering, including: <ul style="list-style-type: none"> ○ Linoleum ○ Homogenous PVC Sheet Vinyl ○ Inlaid Sheet Vinyl ○ Rotovinyl ○ Cushioned Sheet Vinyl ○ Resilient Tile (soft tile) ○ Asphalt Tile ○ Vinyl Composition Tile (VCT) ○ Cork Tile ○ Rubber Tile • Explain the advantages and limitations of using resilient floor coverings. • Identify the appropriate tools to use to install resilient floor coverings.

6.0 FLOOR COVERER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
6.06 INSTALLATION METHODS FOR LAMINATE AND HARDWOOD FLOORING	<ul style="list-style-type: none"> • Demonstrate the measuring procedures to determine the required amount of materials needed for installation. • Demonstrate the layout and installation procedures to properly install manufacturer's materials. • Demonstrate installation techniques for various types of laminated and hardwood flooring. • Select and safely use the appropriate tools to install laminated and hardwood floor coverings. • Demonstrate knowledge of adhesive and substrate compatibility including underlayment for floating floors. • Demonstrate knowledge of proper trowel notch sizes as recommended by product manufacturers. • Demonstrate knowledge of proper cutting and fitting for various hardwoods and laminate flooring. • Demonstrate knowledge of proper installation and fitting of trim and wood base. • Observe manufacturer's HVAC recommendations for installation area. • Demonstrate techniques and skills for proper repair and replacement procedures. • Demonstrate knowledge of proper job completion skills. • Successfully complete the requirements for industry recognized manufacturer training and certifications (FORBO, Armstrong, ARDEX Henry, Shaw, Mohawk, Tarkett, Nora Rubber, etc.). 	<ul style="list-style-type: none"> • Identify the three distinct layers in all laminate flooring, including: <ul style="list-style-type: none"> ◦ Surface ◦ Core ◦ Backing • Identify the different types of hardwood floors, including: <ul style="list-style-type: none"> Solid Engineered Parquet Floating Longstrip Exotic Hand scraped • Name the three classifications of Electrostatic Discharge (ESD) control flooring. • Explain the advantages and limitations of using laminate and hardwood floor coverings. • Identify the appropriate tools to install laminate and hardwood flooring.
6.07 INSTALLATION METHODS FOR CARPET AND SYNTHETIC TURF	<ul style="list-style-type: none"> • Demonstrate the measuring procedures to determine the required amount of materials needed for installation. • Demonstrate the layout and installation procedures to properly install manufacturer's material on all surfaces including stairs. • Demonstrate the installation techniques for various types of indoor and outdoor carpet and synthetic turf. • Select and safely use the appropriate tools on carpet and synthetic turf. 	<ul style="list-style-type: none"> • Identify the different types of carpet including backings, surface fibers, and their properties (wool, nylon, acrylics, polypropylene, polyester, recycled, synthetic turf). • Identify the factors which contributed to the growth of the carpet industry. • Identify the impact the invention of tufted carpet had on the industry.

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
6.07 INSTALLATION METHODS FOR CARPET AND SYNTHETIC TURF, CONTINUED	<ul style="list-style-type: none"> • Demonstrate knowledge of adhesive and substrate compatibility for glue down carpet, padding for conventional carpet and turf substrates. • Demonstrate knowledge of proper trowel notch sizes as recommended by product manufacturers. • Demonstrate knowledge of proper cutting and fitting for various types of carpet and turf flooring. • Demonstrate knowledge of proper installation and fitting of trim. • Properly handle and store carpet in manner that prevents damage and distortion. • Consult the manufacturer for specific installation requirements and warranty conditions as they pertain to pile direction and pattern matching. • Refer to carpet manufacturer guidelines prior to installation. • Observe manufacturer's recommendations for seaming carpet edges. • Follow manufacturer's recommendations for double-glue-down, stretch, modular and pre-applied adhesive systems peel and stick installation. • Demonstrate knowledge and skills in pattern alignment and installation proficiencies. • Demonstrate knowledge of proper job completion skills. • Demonstrate techniques and skills for proper repair and replacement procedures. • Successfully complete the requirements for industry recognized manufacturer training and certifications (FORBO, Armstrong, ARDEX Henry, Shaw, Mohawk, Tarkett, Nora Rubber, etc.). 	<ul style="list-style-type: none"> • Identify which unit of measurement the total weight of carpet is measured in. • Explain the advantages and limitations of using carpet and synthetic turf. • Identify the appropriate tools to install carpet and synthetic turf.



Floor Coverer Course Description

COURSE	DESCRIPTION
FLR 4000 Health and Safety Awareness I	<p>Hour/s: 32</p> <p>This course provides the Floor Coverer a general introduction to the various elements of safe work practices and safety on the job site.</p>
FLR 4001 Health and Safety Awareness II	<p>Hour/s: 8</p> <p>This course provides the Floor Coverer with industry specific knowledge of safe work practices and safety on the job site.</p>
FLR 4100 Introduction to the Floor Covering Trade	<p>Hour/s: 8</p> <p>This course will provide the Student with a solid introduction to the Floor Covering Trade. This course will provide the Student with a solid introduction to the Floor Covering Trade. Making its mark in history in the mid 1800s, the industry has continued to grow and evolve as new materials and new methods are being introduced and sometimes made standard.</p>
FLR 4101 Introduction to Sheet Goods	<p>Hour/s: 8</p> <p>This course is designed to provide skillful knowledge in five major areas of the use of sheet goods. Students will learn the proper handling techniques and precautions to look for when sheet goods arrive from the factory. The installer will also learn handling safe handling techniques when unrolling sheet goods on the job.</p>
FLR 4102 Measuring and Estimating	<p>Hour/s: 8</p> <p>In this course, Students will learn to describe and demonstrate various drawings and sketches using both tools and freehand techniques. The Students will apply all newly learned skills to draw and sketch sections of storefront installation as well as a complex storefront.</p>



COURSE	DESCRIPTION
FLR 4103 Top Set Cove	<p>Hour/s: 8</p> <p>This course is designed to provide Students with the skills and knowledge to perform the installation of various types and sizes of top set and self-cove base on walls and corners in various settings.</p>
FLR 4104 Glossary for the Floor Covering Trade	<p>Hour/s: 8</p> <p>This course will provide the apprentice with the appropriate floor covering terminology used in the trade.</p>
FLR 4105 Floor Coverer Special Topics	<p>Hour/s: 40</p> <p>This course is used to provide in-class and hands-on training on special topics in the Floor Coverer Trade.</p> <p><i>Note: No eLearning available for this course. Course content for this course is at the discretion of the instructor.</i></p>
FLR 4106 CFI Hand Sewing and Pattern Correction	<p>Hour/s: 40</p> <p>CFI in collaboration with manufacturer technical reps present a one-week carpet training demonstrating updated installation techniques and procedures.</p> <p><i>Note: No eLearning available for this course. Course content for this course is at the discretion of the instructor.</i></p>
FLR 4107 CFI Residential Stair and Carpet Restoration	<p>Hour/s: 32</p> <p>This two-day training focuses on advanced or custom installation methods for stairs. It provides installers with hands-on instruction on how to sew a round-capped step with a birdcage. Included are proven clear-cut practices for installing carpet in waterfall, together with skirt-and-cap methods.</p>
FLR 4108-4199 Not Yet Assigned	

COURSE	DESCRIPTION
FLR 4200 Surface Preparation	<p>Hour/s: 16</p> <p>This course describes the procedure for preparing concrete and other masonry surfaces to receive resilient floor coverings. Additionally, Students in this course will learn the requirements for preparing a wood surface for covering. Similar to the preparation for concrete work, the wood surface must be dry, clean, and level. The methods by which the wood surfaces are prepared are more complex because of the many wood surfaces with which the installer must work.</p>
FLR 4201 Specialties of the Floor Covering Trade I	<p>Hour/s: 16</p> <p>This course is designed to provide an overview of state-of-the-art floor covering tools and techniques used by some of the prominent manufacturers in the trade. A blend of classroom instruction and hands-on applications during this course will give the floor covering journey worker an introduction to how these tools and techniques may improve the quality and efficiency of floor covering work.</p>
FLR 4202C ARDEX Concrete Toppings and Coatings (CERTIFICATION)	<p>Hour/s: 20</p> <p>This course is designed to provide Students an overview of state-of-the-art protective and decorative coating products, tools, and application techniques offered by ARDEX Engineered Cements or similar industry recognized manufacturer. This course is targeted toward coating applicators that prepare the surface and apply coatings such as acrylic, epoxy, or urethane. A blend of classroom instruction and hands-on applications during this course will give Students an in-depth perspective into how these products, tools and application techniques may improve the quality and efficiency of floor coating work processes (Certification Period: Permanent).</p> <p><i>Note: No eLearning available for this course. Course content for this course is at the discretion of the instructor.</i></p> <p>Member Card Abbreviation: ARDEX CONCRETE Toppings& COATS</p>
FLR 4203C Epoxy Concrete Toppings and Coatings (CERTIFICATION)	<p>This course is designed to provide participants an overview of state-of-the-art protective and decorative coating products, tools, and application techniques. This course is targeted toward coating applicators that prepare the surface and apply coatings such as acrylic, epoxy or urethane. A blend of classroom instruction and hands-on applications during this course will give participants an in-depth perspective into how these products, tools and application techniques may improve the quality and efficiency of floor coating work processes (Certification Period: Permanent).</p>

COURSE	DESCRIPTION
FLR 4204 Introduction to ARDEX	<p>Hour/s: 4</p> <p>This course provides the students with an introduction to the ARDEX products and the various application of those ARDEX products.</p>
FLR 4205C Spartacote (CERTIFICATION)	<p>Hour/s: 8</p> <p>This class is taught by Spartacote. Participants learn the different Spartacote products. They learn proper floor preparation and how to install the products. On the second day, participants attend the hands-on training and install sample types of floors (Certification Period: Permanent).</p>
FLR 4206 Sand and Finish Safety (NWFA)	<p>Hour/s: 2.5</p> <p>The course includes Safety Gear, Fire & Extinguisher Safety, Electrical Safety, Regulations Impacting the Wood Flooring Industry, and Volatile Organic Compounds modules.</p>
FLR 4207 Sanding Equipment Operation (NWFA)	<p>Hour/s: .5</p> <p>In this course, you will learn about the machines used to sand and finish wood floors, including drum and belt sanders, edgers, buffers, planetary sanders, oscillating machines, detail tools, and dust containment systems.</p>
FLR 4208 Sanding Equipment Maintenance (NWFA)	<p>Hour/s: 5</p> <p>In this course, you will learn maintenance guidelines for various parts of sanding machines, including carbon brushes, machine lubrication, machine bearings, edger pads, sanding drums, sanding chambers, wheels, drive belts, and dust bags.</p>
FLR 4209 Abrasives (NWFA)	<p>Hour/s: 2</p> <p>The course includes Abrasives, Drying & Curing, Sealer Types, and Coating Types modules.</p>
FLR 4210 Sanding Process (NWFA)	<p>Hour/s: 5</p> <p>The course includes Sanding Jobsite Preparation, The Filling Process, Sanding Previously Finished Floors, Sanding Strip and Plank Wood Floors, Sanding Parquet Wood Floors, Sanding End Grain Wood Floors, Sanding Cork Floors, Sanding Bamboo Floors, Sanding Considerations for Metal & Stone Inlays, and Sanding Distressed, Textured, & Sculpted Floors modules.</p>

COURSE	DESCRIPTION
FLR 4211 Finishes (NWFA)	<p>Hour/s: .5</p> <p>The course includes Chemical Properties of Wood Floor Finishes and Board Replacement modules.</p>
FLR 4212 Colorants (NWFA)	<p>Hour/s: 2.5</p> <p>The course includes Stains, Water Popping, Aniline Dyes, Wood Bleach, and Reactive Conditioners modules.</p>
FLR 4213 Hand Scraping - Wire Brushing and Distressed Wood Floors (NWFA)	<p>Hour/s: .5</p> <p>In this course, you will learn about the tools used to texturize and distress the wood floor, as well as considerations for using the tools to achieve different effects.</p>
FLR 4214 Evaluating Wood Floor Damage (NWFA)	<p>Hour/s: .5</p> <p>In this course, you will learn about the various types of damage that wood floors can sustain, including scratches, dents, stains, and water damage, and the potential fixes for each.</p>
FLR 4215 Finishing Process (NWFA)	<p>Hour/s: 1.5</p> <p>The course includes Finish Applicators, Finish Preparation, and Finish Application Procedures modules.</p>
FLR 4216 Recoating a Previously Finished Wood Floor (NWFA)	<p>Hour/s: .5</p> <p>In this course, you will learn the items that the wood flooring professional must consider when recoating a wood floor, as well as general recoating guidelines and how to promote finish adhesion.</p>
FLR 4217 Care and Maintenance (NWFA)	<p>Hour/s: 1.5</p> <p>The course includes The Importance of Maintenance & Educating the Customer, General Maintenance for All Wood Floors, and Maintenance Products modules.</p>

COURSE	DESCRIPTION
FLR 4218 Sanding-Filler- Finish Irregularities (NWFA)	<p>Hour/s: .5</p> <p>In this course, you will learn about different irregularities that can occur during the sand and finish process, including sanding marks, chatter, dishout, picture framing, popped filler, filler on the board surface, nail hole filler, light-sensitive wood filler, applicator streaks, bubbles, debris in the finish, and uneven sheen levels.</p>
FLR 4219 Not Yet Assigned	<p>Hour/s: X</p> <p>X</p>
FLR 4220 ARDEX Flooring	<p>Hour/s: 20</p> <p>Students who attend will be trained in moisture control, substrate preparation, patching and leveling, and adhesives. Lessons include priming, concrete and concrete surface conditions, joints and cracks in concrete, mechanical preparation of concrete, thick pour gypsum underlayments, adhesive residue, wood, metal, resilient and other non-porous substrates, self-leveling vs trowel grade materials, flat, smooth and level, and failures.</p>
FLR 4221 ARDEX Specialties of Floor Covering	<p>Hour/s: 24</p> <p>Students who attend will be trained in moisture control, priming, concrete and concrete surface conditions, joints and cracks in concrete, mechanical preparation of concrete, thick pour gypsum underlayments, adhesive residue, wood, metal, resilient and other non-porous substrates, self-leveling vs trowel grade materials, flat, smooth, and level, what could go wrong, and adhesives topics.</p> <p><i>TTT Course Code - FTI 4221 ARDEX Specialties of Floor Covering</i></p>
FLR 4222-4299 Not Yet Assigned	<p>Hour/s: X</p> <p>X</p>

COURSE	DESCRIPTION
FLR 4300 Materials and Tools of the Floor Covering Trade	<p>Hour/s: 20</p> <p>In this course, students will explore the many different types of materials from which they and their customers can choose when laying a new floor or replacing an old floor. Students will learn to describe and determine which floor covering materials are appropriate for the job at hand and how the job can be accomplished safely and efficiently.</p>
FLR 4301 Special Jobs	<p>Hour/s: 20</p> <p>Some of the special jobs a floor covering installer may encounter are discussed in this course, including: coving with tile, insets, electrostatic discharge control (EDC), and heat seam welding.</p>
FLR 4302-4399 Not Yet Assigned	

COURSE

DESCRIPTION

FLR 4400 Tile Layout and Installation

Hour/s: 20

A well planned layout is the first requirement for achieving a neat, efficient installation of resilient floor tile. Careful planning and preparation can ensure that the border is properly balanced and that there is minimal waste of flooring product. An installer must make sure that the type and amount of adhesive and the manufacturer's recommendations are followed when laying tile on wet adhesive. Students will also learn the use and installation of conductive flooring to prevent the discharge of static electricity which can be harmful in some environments.

FLR 4401 Safety Floors

Hour/s: 20

In this course, Students will learn of the various materials by which safety flooring is made. They will also develop an understanding of the purpose of safety flooring and the process by which it is manufactured to withstand various underfoot traffic. The basic principles for laying vinyl flooring as well as installation procedures, maintenance, and storage will provide a foundation by which to properly and efficiently install safety flooring.

FLR 4402 FORBO Specialties of the Floor Covering Trade II

Hour/s: 20

The flooring industry is continually changing. In order to remain successful, those working in the industry must also change. Education is the key to this change. Through the Associate Mechanic program, FORBO is dedicated to offering resilient flooring installers the most comprehensive and professional installation course in the industry today, or similar industry recognized manufacturer.

FLR 4403 Specialties of the Floor Covering Trade III (Johnsonite Specialty Products Program)

Hour/s: 20

This Johnsonite Specialty Products Program is a series of workshops designed to provide Students with information and skills to properly select, use and install various specialty and rubber flooring products manufactured by Johnsonite. Technical instruction in the classroom will focus on the types of products offered and aspects of manufacturing Johnsonite specialty products such as Linoleum, Homogeneous, Heterogeneous, Luxury Vinyl Tile (LVT) and adhesives as well as various rubber products, their use and integration with linoleum, vinyl and specialty flooring. Students will also be introduced to the Johnsonite selection of rubber products with emphasis on the installation of rubber flooring, treads and risers with regard to ADA requirements; Millwork, Tightlock, RePlace and other wall base installations, as well as an in depth look at the problems, causes and cures of installing Transitions, or similar industry recognized manufacturer.



COURSE	DESCRIPTION
FLR 4404C Armstrong Installation (CERTIFICATION)	<p>Armstrong training provides product knowledge and introduction of new products. The representative also discusses floor preparation and proper installation. At the end of the training, participants will have time for hands-on and practice on floor sheeting (Certification Period: Permanent).</p> <p><i>Note: No eLearning available for this course. Course content for this course is at the discretion of the instructor.</i></p> 
FLR 4405 Resilient Tile Installation and the Use of Math	<p>Hour/s: 3</p> <p>A well-planned layout is the first requirement for achieving a neat, efficient installation of resilient floor tile. Students will learn how the shape of the room (square, round, or irregular) and the chosen layout dictate which layout method should be used. Choosing the appropriate type and amount of adhesive will also be discussed. In module two, students will learn to describe and demonstrate various drawings and sketches using both tools and freehand techniques.</p>
FLR 4406C MONDO Sport Flooring (CERTIFICATION)	<p>Hour/s: 24</p> <p>Certification includes but is not limited to training on proper site conditions, floor preparation, layout, proper adhesive application, and MSDS information (Certification Period: 24 months).</p>
FTI 4407 Innovations4Flooring (I4F)	<p>Hour/s: 8</p> <p>Students will tour the I4F plant and see first hand how Solid Polymer Core (SPC) is made; from being extruded to being packaged. Students will discuss the differences in Common Compositions that will include laminate, Wood Plastic Composite (WPC), SPC and their different locking mechanisms between the different products. Hands-on training will consist of installation of both drop lock and angle products, subfloor prep, installation tips with layout and room balance. The proper tools to be used will also be reviewed.</p>
FLR 4408-4499 Not Yet Assigned	<p>Hour/s: X</p> <p>XXX</p>

COURSE	DESCRIPTION
FLR 4500 Laminate Flooring	<p>Hour/s: 30</p> <p>After participating in this course, the Floor Coverer will have a working knowledge of the types of construction of laminate flooring and the types of surfaces on which laminate flooring can be applied. This course will discuss the importance of planning the layout, preparing the room and choosing specialty tools and other equipment needed to properly and efficiently install laminate flooring.</p>
FLR 4501 Hardwood Flooring	<p>Hour/s: 30</p> <p>This course is a blend of classroom and hands-on training and is designed to allow the students to install both hardwood and engineered flooring in the most basic applications. Floor preparation, moisture content and fastening techniques are also covered as they pertain to the hardwood floor installation process.</p>
FLR 4502 Floor Installation	<p>Hour/s: 2</p> <p>This course provides basic instruction for four of the most common floor installations performed today by our floor covering installers: Laminate Floor Covering, Luxury Vinyl Flooring, Top Set Cove, and Polishing Concrete. Students will learn the parts and attributes of each type of floor covering material, the installation methods for each, and any special considerations when installing or maintaining the materials.</p>
FLR 4503 Installation Safety (NWFA)	<p>Hour/s: 18</p> <p>In this course, participants will explore the functions, features, and benefits of the personal protective equipment (PPE) required for a safe jobsite; learn methods for fire prevention on the jobsite and how to operate and maintain fire extinguishers; and learn the proper use and importance of exercising safety precautions for tools and equipment.</p>
FLR 4504 Jobsite Evaluation (NWFA)	<p>Hour/s: 18</p> <p>In this course, you will explore and learn what to look for when evaluating the exterior of the customer's home, structures within the home, and how to properly evaluate the environmental conditions of the customer's home.</p>



COURSE	DESCRIPTION
FLR 4505 Subfloor Preparation (NWFA)	<p>Hour/s: 16</p> <p>In this course, participants learn how to evaluate types of wood and concrete subfloor systems, learn about wood subfloor systems that can be installed over concrete, discover sound control considerations, and explore installation methods over radiant heating systems.</p>
FLR 4506 Forest to Floor (NWFA)	<p>Hour/s: 2</p> <p>In this course, you will learn the basic tree anatomy, follow the process of how a tree is made into wood flooring, and learn about the construction, attributes, and uses of solid and/or engineered wood flooring.</p>
FLR 4507 Wood Moisture Testing (NWFA)	<p>Hour/s: 2</p> <p>This course has six lessons: Acclimation and Conditioning, Moisture Content & Wood, Wood Moisture Testing, Underlayments: Moisture Control, Wood Moisture Control, and Moisture-Related Wood Floor Issues.</p>
FLR 4508 Concrete Moisture Testing (NWFA)	<p>Hour/s: 2</p> <p>This course has four lessons: Concrete Basics, Concrete Moisture Control, Concrete Moisture Testing, and Moisture and Concrete.</p>
FLR 4509 Layout (NWFA)	<p>Hour/s: 2</p> <p>In this course, you will discover how to simplify the installation process through proper layout methods.</p>
FLR 4510 Nail Down Installation (NWFA)	<p>Hour/s: 2</p> <p>In this course, you will learn the step-by-step process and considerations that contribute to a successful nail-down wood floor installation.</p>
FLR 4511 Glue-Down Installation (NWFA)	<p>Hour/s: 2</p> <p>In this course, you will learn the step-by-step process and considerations that contribute to a successful glue-down wood floor installation.</p>
FLR 4512 Installation Methods and Considerations (NWFA)	<p>Hour/s: 26</p> <p>In this course, you will learn the step-by-step process and considerations that contribute to a successful floating wood floor installation.</p>

COURSE	DESCRIPTION
FLR 4513 Board Replacement (NWFA)	<p>Hour/s: 2</p> <p>In this course, learn the step-by-step process for properly replacing damaged wood flooring.</p>
FLR 4514 Patterned Floor Layout (NWFA)	<p>Hour/s: 2</p> <p>In this course, you will learn step-by-step how to lay out a herringbone pattern to ensure a successful installation of this type of parquet wood flooring, and learn about parquet wood flooring patterns and the importance of layout to ensure a successful installation.</p>
FLR 4515 Install Repairs (NWFA)	<p>Hour/s: 12</p> <p>In this course, you will learn about making common repairs to existing wood floors. When you complete this course, you will be able to:</p> <ul style="list-style-type: none"> • Identify common wood floor problems: scratches, gouges, water damage, and movement. • Recognize appropriate repairs to address wood floor damage.
FLR 4516 NWFA	<p>Hour/s: 40</p> <p>The goal is for the participants to pass the installation certification hands-on test and learn how to proctor these tests. The participants must complete the online university modules before the class in March-April.</p>
FLR 4516-4699 Not Yet Assigned	

COURSE	DESCRIPTION
FLR 4600 Introduction to the Carpet Industry	<p>Hour/s: 12</p> <p>In this course, students will learn the history of the carpet industry in North America. Students will learn that identifying the various types of carpet construction is essential to the installer and the installation process since each type determines which technique will be used for installation.</p>
FLR 4601 Installation Tools and Equipment	<p>Hour/s: 12</p> <p>This module will provide a foundation of the tools and materials used when installing carpet.</p>
FLR 4602 Floor Preparation	<p>Hour/s: 12</p> <p>Prior to installing carpet, the floor must be properly prepared to ensure a satisfactory job. The two most frequently used methods of installing carpet are stretching-in over cushion or adhering of the carpet to the floor with an adhesive. Each requires a different type of floor preparation. In discussing carpet cushion, the Students will learn the categories of carpet cushion and where and how they are best used. Also required of the carpet installation is the seaming or joining of the floor covering. Because most customers do not want the seams to show, the floor coverer needs great skill and care when seaming the carpet.</p>
FLR 4603 Carpet Installation	<p>Hour/s: 12</p> <p>This course explains the installation procedures and considerations for three types of woven carpets: Velvet, Wilton, and Axminster as well as proper techniques for installing patterned carpet. While the principles for installation are generally the same for woven and tufted carpets, there are a few important differences and these will also be discussed. This course will also discuss the installation of carpet using the glue-down and tackless methods, and students will also learn techniques for installing stair carpet for which the basic principles can be applied to other installations of carpet on varying styles and dimensions of stairs.</p>
FLR 4604 Carpet Installations: Woven and Patterned	<p>Hour/s: 12</p> <p>The first module discusses the installation procedures and considerations for three types of woven carpets: Velvet, Wilton, and Axminster. The second module is about installing patterned carpet.</p>
FLR 4605 Vinyl Back Carpet & Carpet Tiles	<p>Hour/s: 12</p> <p>In this course, Students will learn the process for removing debris from floors before laying carpet as well as the process for installing, trimming, and repairing vinyl back carpet.</p>

COURSE

DESCRIPTION

FLR 4606 Field Turf Installation

Hour/s: 8

Learn the advantages of using field turf over real grass, view the applications in which turf can be used, learn the health risks involved in turf installation and understand how field turf is installed.

With eLearning assessment





Glazier

O*NET-SOCCODE: 47-2121.00

RAPIDS CODE: 0221-HY

Also known as Glass Worker

Course Competencies

The Program level curriculum builds upon the foundation of the core curriculum skills, knowledge, and abilities. At the program level, occupation-specific standardized curriculum is designed by an ad-hoc committee comprised of the FTI Curriculum Department, IUPAT/iFTI subject matter experts, employers, manufacturers, and associations.

Apprentices will be assessed on their acquisition of knowledge, skills and abilities in the core curriculum through hands-on and written tests as well as the OJL performance measures.

Additionally, the apprentices will integrate their core knowledge, skills and abilities into the pursuit of specific craft training throughout the term of their apprenticeship. This program specific training is designed to build the technical and professional skills needed by the apprentice to successfully perform his/her trade profession.

Apprenticeship Program

The Glazier Apprenticeship Program is co-sponsored by the IUPAT/iFTI to meet the ever-changing needs of the industry and the affiliates it serves. The apprenticeship program ensures that apprentices will learn the theoretical knowledge and the practical skills necessary to be a successful Glazier. During this program of study, apprentices will successfully complete the IUPAT/iFTI core curriculum and integrate it into the Glazier occupation specific training. Apprentices successfully completing this program apply their skills and abilities as a Glazier.

Description of Occupation

An Architectural Glass and Metal Technician (AGMT), called a Glazier, is responsible for selecting, cutting, installing, replacing, and removing all types of glass. Work in the glazing field includes both residential and commercial projects. Residential projects may include replacing a home's window glass to improve energy efficiency; using various techniques and materials to incorporate good weatherization strategies; installing glass mirrors, shower doors, and bathtub enclosures; and fitting glass for tabletops and display cases.

Commercial interior glazing projects include installing items such as heavy, decorative room dividers or security windows. Other glazing projects may involve replacing storefront windows for establishments such as supermarkets, auto dealerships, or banks. In the construction of large commercial buildings, glaziers build metal framework extrusions and install glass panels or curtain walls.

Glass serves many uses in modern life. Insulated and specially treated glass keeps in warmed or cooled air and provides good condensation and sound control qualities,

while tempered and laminated glass makes doors and windows more secure. In large commercial buildings, glass panels give office buildings a distinctive look while reducing the need for artificial lighting. The creative use of large windows, glass doors, skylights, and sunroom additions makes homes bright, airy, and inviting.

Glaziers are continuously promoting the application of green technology with the use of solar performance and sustainability in the glazing trade. The glazing trade is specifically focused on energy efficient retrofitting projects as well as the design and installation of energy efficient weatherization materials and solar technology in both residential and commercial applications.

Care must be exercised in the removal and installation of all types of glass for building fixtures and other uses. Oftentimes, the glass is precut and mounted in frames at a factory or a contractor's shop. It arrives at the jobsite ready for glaziers to position and secure it in place. Cranes and hoists with suction cups may be used to lift large, heavy pieces of glass. The work may have to be prepared either inside or outside a building, and scaffolding may be used in installations. Safe work habits are important in this occupation.

With advancements in building technology, welding skills and proper techniques are necessary to safely fasten the window system to the substrate. In order to prepare the glazier to properly perform welding techniques the glazier may be trained to the standards set forth by the American Welding Society (AWS).





Training/Skillset

Skills needed to become a Glazier include manual dexterity, eye-hand coordination, physical fitness, and a good sense of balance. The ability to solve arithmetic problems quickly and accurately also is required. A good work history or military service is viewed favorably by employers.

The Glazier's curriculum and training will provide the skills, knowledge, and abilities needed to meet the needs of the industry and to ensure that each worker is equipped to use the technology, materials, and applicable methods of glazing as well as adhering to all quality and safety standards on the job. Glaziers use hand tools such as glasscutters, suction cups, and glazing knives, as well as power tools such as saws, drills, cutters, and grinders. An increasing number of Glaziers use computers in the shop or at the job site to improve their layout work and reduce the amount of glass that is wasted.

Due to improvements in the thermo capacity of modern glass, as well as increased demand for more natural light, the industry has seen an increase in the use of larger and heavier glass panels. The increased trend toward using factory glazed units means that the Glazier must increase his/her knowledge and abilities to use hoisting and rigging equipment.

Also, due to an increase in environmental concerns, there is a tendency for new structures to meet Leadership in Energy and Environmental Design (LEED) guidelines. The Glazier needs to have knowledge of high performance glazing products, solar trends, and building envelope integrity.

Glaziers learn through OJL and by working as an apprentice alongside an experienced journeyworker. This is accomplished through a combination of related instruction as delineated in these Standards.

Working Environment



Employment in the glazing trade is less seasonal than in most of the construction occupations. Such activities as replacing broken glass, making shower doors, and cutting glass for store cabinets and fixtures provide work through the year. Employment in retail outlets also tends to be stable.

Glaziers often work outdoors, sometimes in inclement weather. Their work can, at times, result in injuries as they work with sharp tools and may need to remove broken glass. They must be prepared to lift heavy glass panels and work on scaffolding, swing stages, mast climbers, and self-propelled platforms such as scissor and boom lifts; sometimes at great heights. Glaziers do a considerable amount of bending, kneeling, lifting, and standing during the installation process.

Glaziers generally work on one of several types of projects. Residential glazing involves work such as replacing glass in home windows; installing glass mirrors, shower doors, and bathtub enclosures; fitting glass for tabletops and display cases as well as energy efficient retrofits.

Commercial interior projects may require Glaziers to install items such as heavy, often etched, decorative room dividers or security windows. Glazing projects may also involve replacement of storefront windows for establishments such as supermarkets, auto dealerships, or banks. In the construction of large commercial buildings, Glaziers build metal framework extrusions and install glass panels or curtain walls. Glazing projects are focusing more and more on weatherization practices and the retrofitting and installation of new energy efficient and energy producing glazing systems.

Emphasized early in the apprentice's career is adherence to and knowledge of OSHA standards for personal safety; safety on the job site; and proper handling of tools, materials and equipment. Additionally, the apprentice will discuss safe work practices when working with glazing materials and various obstacles that may be encountered on the job, such as moving and lifting heavy or odd shaped glass and metal objects.

Program Level Competencies

With reference to each of the respective areas of the Glazing trade, apprentices successfully completing this program will be able to:

- ✓ Explore trade options as they pertain to the glazing industry.
- ✓ Examine principles of glass.
- ✓ Identify trade-related materials and applications.
- ✓ Utilize trade-related tools and equipment.
- ✓ Interpret drawings related to the glazing trade.
- ✓ Apply trade math calculations.
- ✓ Apply building controls and layout techniques.
- ✓ Demonstrate the proper fabrication, assembly, and installation methods of the glazing industry.
- ✓ Apply the standards of quality control and quality assurance in the glazing industry.
- ✓ Apply green technology as appropriate in the glazing trade.

Suggested Program of Study

The IUPAT/iFTI Program of Study for the Glazier OJL and RI is outlined below. Under this hybrid approach, an apprentice must participate in the indicated minimum number of hours of OJL for each category of the program. The Program Sponsor is responsible for determining the number of RI hours that an apprentice must participate in based on the iFTI guidance, local needs, and the suggested minimum of 144 hours per year (29 CFR 29.5(b)(4)).

STD CAT #	CATEGORY NAME	OJL HRS	RI HRS
7.01	Health and Safety for the Glazier	200-400	24
7.02	Introduction to the Glazing Trade	400-640	40
7.03	Sealants	80-120	40
7.04	Architectural Drawings	200-400	40
7.05	Glazing Systems Installation and Layout	800-1200	100
7.06	Replacement Work, Retro-Fit and Weatherization	200-400	20
7.07	Skylights and Sloped Glazing	200-400	20
7.08	Energy Glazing Systems	200-400	20
7.09	Welding	200-400	80
		2512- 4392	480

See the table on the next page.

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
	1.0-3.0		Core Curriculum	32	96
7.01	GLZ	5000-5099	Health and Safety for the Glazier	200-400	24
			Course Code and Course Name	Hours	Months Valid
			GLZ 5000 Safe Work Practices	4	N/A
			GLZ 5001 Safety Glazing Codes	4	N/A
			GLZ 5002 Shop Machinery Safety	4	N/A
			GLZ 5003 Swing Stage	8	N/A
			GLZ 5004 Cold Weather Practices	2	N/A
			GLZ 5005C Powder Actuated Tools (CERTIFICATION)	4	Permanent
			GLZ 5006 Art Stained Glass	4	N/A
			GLZ 5007 ASTM Codes	4	N/A
			GLZ 5008 AGMT Prep	3	N/A
			GLZ 5009C AGMT (CERTIFICATION)	16	48
			GLZ 5010-5014 Not Yet Assigned		
			GLZ 5015C AGMT Recertification	2	48
			GLZ 5016-5099 Not Yet Assigned		
7.02	GLZ	5100-5199	Introduction to the Glazing Trade	400-640	40
			Course Code and Course Name	Hours	Months Valid
			GLZ 5100I Math for the Glazing Trades (Instructor Access)	8	N/A
			GLZ 5100S Math for the Glazing Trades (Student Access)		
			GLZ 5101 Hand Tools for the Glazier	8	N/A
			GLZ 5102 Glass Cutting and Fabrication	8	N/A
			GLZ 5103 Anodized and Painted Finishes	8	N/A
			GLZ 5104 Transits and Leveling Instruments	8	N/A
			GLZ 5105 Bits-Tips-Taps-Fasteners	4	N/A
			GLZ 5106 Math for the Glazing Trade II	12	N/A
			GLZ 5107 Transits and Leveling Instruments II	12	N/A
			GLZ 5108 Glazier Special Topics	40	N/A
			GLZ 5109 Total Positioning Systems (TPS) Fundamentals	40	N/A
			GLZ 5110C HILTI (CERTIFICATION)	4	Permanent
			GLZ 5111 Glaziers FG-2 License Prep	40	N/A
			GLZ 5112 Total Stations II	8	N/A
			GLZ 5113 Introduction to the Glazing Trade/Total Stations III		
			GLZ 5114 Woods Powr-Grp	4	N/A

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
7.02	GLZ	5100-5199	Introduction to the Glazing Trade, continued	400-640	40
			Course Code and Course Name	Hours	Months Valid
			GLZ 5116 Introduction to CNC	4	N/A
			GLZ 5117 Glazier Special Topics II	16	N/A
			GLZ 5118 Glazier Special Topics III	16	N/A
			GLZ 5119 History of Glass	XXX	N/A
			GLZ 5120 Glazing Intermediate Introduction	8	N/A
			GLZ 5121-5122 Not Yet Assigned		
			GLZ 5123 Trimble Robotic Total Stations	24	N/A
			GLZ 5124 Raise Robotics System for Layout Marking	24	N/A
			GLZ 5125-5199 Not Yet Assigned		
7.03	GLZ	5200-5299	Sealants		
			Course Code and Course Name	Hours	Months Valid
			GLZ 5200 Sealants and Compatibility	20	N/A
			GLZ 5201 Sealant Application, Testing and Failure	20	N/A
			GLZ 5202 Sealants and Compatibility II	8	N/A
			GLZ 5203C PFI (CERTIFICATION)	?	Permanent
			GLZ 5204C TREMCO (CERTIFICATION)	?	Permanent
			GLZ 5205C PALMER Mirror Mastic (CERTIFICATION)	?	Permanent
			GLZ 5206-5299 Not Yet Assigned GLZ 5206 Dow Corning Sealant Installation		
7.04	GLZ	5300-5399	Architectural Drawings	200-400	40
			Course Code and Course Name	Hours	Months Valid
			GLZ 5300 Plans and Drawings	5	N/A
			GLZ 5301 Scales and Dimensions	5	N/A
			GLZ 5302 Basics of Sketching	5	N/A
			GLZ 5303 Blueprint Reading: Perimeter Sheets	5	N/A
			GLZ 5304 Blueprint: Show Drawings*	5	N/A
			GLZ 5305 Blueprint: Architectural	5	N/A
			GLZ 5306 Perimeter Sheets Navigation	5	N/A
			GLZ 5307 Contract Documents and Specifications	5	N/A
			GLZ 5308 CAD Drawings	4	N/A
			GLZ 5309 PlanGrid	8	N/A
			GLZ 5310 Cost Exercise	2	N/A

GLZ 5311-5399 Not Yet Assigned

?

N/A

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
7.05	GLZ	5400- 5499	Glazing Systems Installation and Layout	800-1200	100
Course Code and Course Name				Hours	Months Valid
GLZ 5400 Entrances and Related Hardware				6	N/A
GLZ 5401 Mirrors Layout				6	N/A
GLZ 5402 Setting Blocks-Spacers-Tapes-Gaskets				4	N/A
GLZ 5403 Curtain Wall Systems				8	N/A
GLZ 5404 Security Glazing				6	N/A
GLZ 5405 Structural Glazing				6	N/A
GLZ 5406 Introduction to Storefront				8	N/A
GLZ 5407 Spandrel and Architectural Panel Systems				6	N/A
GLZ 5408 Brake Metal				6	N/A
GLZ 5409 Insulated and High Performance Glass				4	N/A
GLZ 5410 Plastics				4	N/A
GLZ 5411 Aquariums-Shower Doors-Tub Enclosures- Showcases				4	N/A
GLZ 5412 Aluminum Entrances				8	N/A
GLZ 5413 Locks and Bolts				6	N/A
GLZ 5414 Revolving Doors				6	N/A
GLZ 5415 Panic Hardware				8	N/A
GLZ 5416 Ribbon Window Systems				6	N/A
GLZ 5417 Pressure Wall				6	N/A
GLZ 5418 Unitized Glazing Systems Installation				8	N/A
GLZ 5419 Curtain Wall Systems II				12	N/A
GLZ 5420 Curtain Wall Systems III				4	N/A
GLZ 5421 Kimbell Art Museum Extension Project				4	N/A
GLZ 5422C Green Advantage - Curtain Wall Installer (CERTIFICATION)				32	36
GLZ 5423C GRACO: Spray Application (CERTIFICATION)				32	Permanent
GLZ 5424C YKK (CERTIFICATION)				4	N/A
GLZ 5425C Flat Glass II - CT (CERTIFICATION)				?	Permanent
GLZ 5426C KAWNEER 1600 Curtain Wall (CERTIFICATION)				?	Permanent
GLZ 5427C KAWNEER Closers (CERTIFICATION)				?	Permanent
GLZ 5428C KAWNEER Door and Hardware (CERTIFICATION)				?	Permanent
GLZ 5429 Glass Handling				4	N/A

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
7.05	GLZ	5400- 5499	Glazing Systems Installation and Layout, continued	800-1200	100

Course Code and Course Name	Hours	Months Valid
GLZ 5430 JLM Door Hardware and Installation Techniques	8	N/A
GLZ 5431 School Guard Glass Installation Overview	1	N/A
GLZ 5432 Green Advantage Exam Operators	8	N/A
GLZ 5433C Arlington Glass Manipulator (CERTIFICATION)	4	60
GLZ 5434C Schuco Curtain Wall (CERTIFICATION)	8	60
GLZ 5435 Dorma	2	N/A
GLZ 5436C Door Hardware (CERTIFICATION)	8	Permanent
GLZ 5437C Interior Glass Partitions (CERTIFICATION)	4	60
GLZ 5438 Torch Burning and Cutting	4	N/A
GLZ 5439-5442 Not Yet Assigned	XXX	N/A
GLZ 5443 Command Access Electro-Mechanical Solutions	4	N/A
GLZ 5444-5446 Not Yet Assigned	XXX	N/A
GLZ 5447 Glazier Basic - Final Assessment	XXX	N/A
GLZ 5448 Panel Fabrication and Installation	XXX	N/A
GLZ 5449 Glazier Intermediate - Pivots Project	XXX	N/A
GLZ 5450 Glazier Intermediate - Assemble Project	XXX	N/A
GLZ 5451 Glazier Intermediate - Final Assessment	XXX	N/A
GLZ 5452-5499 Not Yet Assigned		

7.06	GLZ	5500-5599	Replacement Work, Retro-Fit and Weatherization	200-400	20
			Course Code and Course Name	Hours	Months Valid
			GLZ 5500 Glass Replacement and Putty Glazing	10	N/A
			GLZ 5501 Weatherization	10	N/A
			GLZ 5502 Air Seal	4	N/A
			GLZ 5503 Glazier Basic – Screen Assessment		
			GLZ 5504-5599 Not Yet Assigned		
7.07	GLZ	5600-5699	Skylights and Sloped Glazing	200-400	20
			Course Code and Course Name	Hours	Months Valid
			GLZ 5600 Introduction to Skylights and Sloped Glazing	20	N/A
STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
7.08	GLZ	5700-5799	Energy Glazing Systems	200-400	20
			Course Code and Course Name	Hours	Months Valid
			GLZ 5700 Introduction to Photovoltaics	20	N/A
			GLZ 5701-5799 Not Yet Assigned		

7.09	GLZ	5800-5899	Welding	200-400	20
				Hours	Months Valid
			Course Code and Course Name		
			GLZ 5800C Construction Shielded Metal Arc Welding (SMAW) - Welding Fillet (CERTIFICATION)	80	36
			GLZ 5801C Welding 3-G (CERTIFICATION)	40	Permanent
			GLZ 5802C Welding 4-G (CERTIFICATION)	40	Permanent
			GLZ 5803 Welding Certification Retainment	4	N/A
			GLZ 5804C Welding AWS A5.1 (CERTIFICATION)	8	Permanent
			GLZ 5805C Welding 1-G (CERTIFICATION)	50	12
			GLZ 5806 Introduction to Welding	2	N/A
			GLZ 5807 Construction Shielded Metal Arc Welding (SMAW) II	16	N/A
			GLZ 5808 Construction Shielded Metal Arc Welding (SMAW) III	24	N/A
			GLZ 5809 Construction Shielded Metal Arc Welding (SMAW) IV	32	N/A
			GLZ 5810 General Welding for the Glazier Trade	24	N/A
			GLZ 5811 General Welding for the Glassworker Trade	24	N/A
			GLZ 5812-5899 Not Yet Assigned		
7.10	GLZ	5900-5999	Evaluation		
			Course Code and Course Name	Hours	Months Valid
			GLZ 5900A Glazier Evaluation (DC 51)	2	N/A
			GLZ 5901A Top Out Exam Glazier Apprentice	8	N/A
				2512-4392	480

GLZ Course Competencies

This table identifies the course competencies that the Glazier apprentice will successfully complete.

7.0 GLAZIER

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
7.01 HEALTH AND SAFETY AWARENESS FOR THE GLAZIER	<ul style="list-style-type: none"> Don (put on), doff (remove), inspect, and maintain the proper PPE that should be worn including, but not limited to: <ul style="list-style-type: none"> Head Eyes Hands Feet Face Ears Body Respiratory Perform a job analysis for safe working conditions: <ul style="list-style-type: none"> Attend pre-job safety meetings Observe Vessel Entry/Confined Space regulations. Adhere to site specific safety rules and federal regulations Read and interpret MSDS Establish and maintain a safe working perimeter Maintain clean work areas (housekeeping). Demonstrate proper and safe handling of materials and glass. Identify the locations of First Aid and Fire Equipment. Demonstrate basic safety awareness practices. Demonstrate the process by which to erect and dismantle a scaffolding system. Don and doff a personal fall arrest body harness and lanyard system. Recognize dangerous situations that pertain to damaged equipment or unsafe work practices and follow proper protocol for reporting and correcting the situation. 	<ul style="list-style-type: none"> Recognize the important areas of OSHA in general terms. Describe the role of employer, supplier, and worker in the education of safety for workers. Identify site and job specific hazards and policies of OSHA 29CFR1926 and 29CFR1910 regulations, including: <ul style="list-style-type: none"> Swing Stage Safety Shop Safety Rigging and Hoisting Scaffold Erector and Dismantler Crane Safety and Hand Signals Identify the Safety Regulations as they apply to safe work practices in the glazing trade with emphasis on the importance of : <ul style="list-style-type: none"> Identifying safety hazards (unsafe conditions) Maintenance and safe operation of tools Handling of materials, including hazardous materials Selecting and using PPE Explain the use of Material Safety Data Sheets (MSDS) for following precautions when using chemicals in the glazing trade. Describe the precautions that must be followed when using sealants and other chemicals. Describe the process for handling, cleaning, and storing anodized or painted aluminum finishes. Recognize and explain the set-up and dismantling of a scaffolding system. Recognize welder safety and working conditions and apply acceptable safety preventive measures. Outline emergency procedures and how to obtain assistance for injured workers. Given illustrations or verbal clues, distinguish between a proper and improper workplace set-up with regard to hazards, safety equipment and stilt selection.

7.0 GLAZIER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)																											
7.02 INTRODUCTION TO THE GLAZING TRADE	<ul style="list-style-type: none"> Demonstrate the characteristics of a professional Glazier, including: <ul style="list-style-type: none"> Exhibit suitable appearance and personal hygiene. Exhibit proper attitude and behavior on job sites including private residences and other occupied buildings. Deal with difficult customers in a professional and courteous manner. Interpret written and verbal instructions. Recognize the importance of cooperation and interaction with related occupations on a job site. Demonstrate the use of glazing hand tools, including but not limited to: <table border="0"> <tr> <td>General Tools (rules, straight edges, protractor, dividers)</td><td>Glass/Plastic Cutters</td><td>Glass Pliers</td></tr> <tr> <td>Squares</td><td>Screwdrivers</td><td>Metal Cutters</td></tr> <tr> <td>Levels and Transits</td><td>Specialty/Drill Bits and Fasteners</td><td>Hacksaws</td></tr> <tr> <td>Glass/Plastic Cutters</td><td>Caulking Guns</td><td>Glass Holders</td></tr> <tr> <td>Screwdrivers</td><td>Knives (utility, putty, hackout) and Chisels</td><td>Hammers and Mallets</td></tr> <tr> <td>Squares</td><td></td><td>Pry Bars</td></tr> <tr> <td>Levels and Transits</td><td></td><td>Rivet Guns</td></tr> <tr> <td></td><td></td><td>Tap and die</td></tr> <tr> <td></td><td></td><td>Wrenches</td></tr> </table> Demonstrate the proper use of glass handling tools, materials and machinery. Select the proper tools to safely and correctly open a case of glass. Demonstrate the techniques used to remove, lift, carry, transport, roll and place a lite of glass on a vertical or horizontal plane. Demonstrate the process for disposing of broken glass. Demonstrate the process for cleaning anodized or painted aluminum. Demonstrate auto glass replacement and repair procedures. Demonstrate the proper use of tools, materials and safety equipment during an art glass project. 	General Tools (rules, straight edges, protractor, dividers)	Glass/Plastic Cutters	Glass Pliers	Squares	Screwdrivers	Metal Cutters	Levels and Transits	Specialty/Drill Bits and Fasteners	Hacksaws	Glass/Plastic Cutters	Caulking Guns	Glass Holders	Screwdrivers	Knives (utility, putty, hackout) and Chisels	Hammers and Mallets	Squares		Pry Bars	Levels and Transits		Rivet Guns			Tap and die			Wrenches	<ul style="list-style-type: none"> Identify and explain basic terminology used in glazing. Identify the historical events of the modern glazing trade. Describe working conditions in the glazing trade. Identify the career options and advancement opportunities in the glazing trade. Describe at least three purposes for including windows in a building's design. Identify the appropriate PPE needed when handling glass. Identify hand tools used in the glazing trade. Describe custody, care, and maintenance, of tools and equipment. Identify symbols used in the glazing trade. Describe the types of glass used in building construction and where they are used. Describe the importance of load placement when moving and storing materials on a construction site. Describe the proper technique (ergonomics) for lifting and transporting glazing materials. Recognize the processes used on anodized or painted finishes. Describe the purpose of the extrusion process on various types of materials (glass, aluminum, plastic, etc.). Identify good welding applications on various joint designs and glazing finishes. Describe the hazards associated with broken glass and its disposal. Discuss the importance of quality workmanship when glazing aquariums, shower doors or tub enclosures. Describe the tools, materials and safety precautions when creating art glass projects. Discuss the importance of ensuring proper ventilation and using safety equipment when working with hazardous chemicals and materials in art glass projects.
General Tools (rules, straight edges, protractor, dividers)	Glass/Plastic Cutters	Glass Pliers																											
Squares	Screwdrivers	Metal Cutters																											
Levels and Transits	Specialty/Drill Bits and Fasteners	Hacksaws																											
Glass/Plastic Cutters	Caulking Guns	Glass Holders																											
Screwdrivers	Knives (utility, putty, hackout) and Chisels	Hammers and Mallets																											
Squares		Pry Bars																											
Levels and Transits		Rivet Guns																											
		Tap and die																											
		Wrenches																											
7.03 SEALANTS	<ul style="list-style-type: none"> Demonstrate the techniques used to achieve good joint design. Point out the qualities of good joint design and a properly prepared surface for sealant application. 	<ul style="list-style-type: none"> Use sealant terminology in sealant selection during course discussions and experiences. Describe sealant forms, classifications and properties. 																											

7.0 GLAZIER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
7.03 SEALANTS, CONTINUED	<ul style="list-style-type: none"> Demonstrate methods for applying sealant on various structural glazing systems. Demonstrate methods for sealing expansion joints. Demonstrate knowledge of compatibility and application of membranes. 	<ul style="list-style-type: none"> Identify the different types of drywall tape (paper and fiberglass). Describe the factors of good joint design including the basic principles of joint width and depth. Distinguish between techniques for substrate preparations used with a variety of commonly used construction surfaces. Describe the components, methods and applications of structural glazing systems. Describe manufacturer's specifications for primers, solvents, and sealants used in structural glazing applications. Describe compatibility and application of various membranes.
7.04 ARCHITECTURAL DRAWINGS	<ul style="list-style-type: none"> Interpret and apply architectural drawings and their associated components on the job, including: <ul style="list-style-type: none"> Blueprints Scale rulers Symbols and terminology Shop drawings Materials lists Cutting schedules Perimeter sheets Optimization schedules Details Contract specifications Demonstrate the ability to make freehand sketches in a quick and efficient manner without using a compass, straight edge, or protractor. Demonstrate how to make the following sketches: <ul style="list-style-type: none"> Oblique drawings of straight and curved objects Basic isometric and perspective sketches A section of a storefront installation A complex storefront with returns Read a shop drawing and relate the information on it to an actual structure. Read cross section diagrams of architectural metal extrusions to identify the following: <ul style="list-style-type: none"> Headers Sills, bulkheads, and sill flashing Jambs Mullions Door jambs Intermediate horizontals Corner metal Make a list of materials based on the shop drawing. 	<ul style="list-style-type: none"> Describe the parts, purpose, and importance of using the following on a glazing job: <ul style="list-style-type: none"> Blueprints Shop drawings Specifications and schedules Finish schedules Contract specifications Change notices Site Instructions Request for Information Request for Quotation Read and interpret the details of blueprints, shop drawings, and perimeter sheets for the glazing trade. Describe the differences between an oblique drawing, an isometric drawing, and a perspective drawing. Identify the various views of a drawing that are included in a set of plans and their relationship to each other. Identify and define material symbols, abbreviations, and lines used in drawings. Identify type and swing of doors. Identify a variety of windows (single, double hung, awning, casement, sliding) Define the meaning of scale. Use fractional rule to calculate measurements. Explain how an architect's scale is used to measure lines. Use the architect's scale to determine the actual length of a scaled line. Recognize, locate, and determine missing dimensions. Describe proper handling procedures for plans and drawings.

7.0 GLAZIER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
7.04 ARCHITECTURAL DRAWINGS, CONTINUED		<ul style="list-style-type: none"> Identify associated materials on a set of plans such as vinyl gaskets, shims, backer rod, anchors, caulking, and setting blocks. Explain the difference between in-shop fabrication and on-site fabrication. Determine final measurements, taking into consideration materials used, thermal expansion, and the required coverage of the glass. Explain the purpose of cutting and materials lists and how they are created based on shop drawings and sketches.
7.05 GLAZING SYSTEMS INSTALLATION AND LAYOUT	<p>Glass Cutting:</p> <ul style="list-style-type: none"> Demonstrate the basic principles and procedures for cutting glass. Measure, mark, and score glass to specified dimensions using a glass cutter. Demonstrate basic fabrication techniques including: edging, removing scratches, drilling and cut outs. <p>Mirrors:</p> <ul style="list-style-type: none"> Measure the wall and transfer measurements onto a mirror. Cut and perform edgework to various levels on glass and mirrors using upright wet belt sanders and hand held belt sanders. Drill small and large holes using the proper drill for each. Demonstrate the following glass and mirror cutouts: corner, wall outlet, peninsula notch, island circle and outside circle. Recognize problems and apply solutions to imperfect wall surfaces to be used for mirror mounting. Demonstrate the layout, fabrication, and installation procedures for mirror mounting. Properly store and handle mirrors. <p>Shower Doors and Tub Enclosures:</p> <ul style="list-style-type: none"> Demonstrate the use of hardware for shower and tub enclosures. Measure and layout a shower and tub enclosure. Demonstrate fabrication and installation techniques for shower and tub enclosures. <p>Doors and Locks:</p> <ul style="list-style-type: none"> Perform a reliability test on installed panic hardware. Demonstrate the construction and installation of aluminum doors and other entrances. 	<p>Glass Cutting:</p> <ul style="list-style-type: none"> Identify the principles and procedures for cutting glass and plastics. Identify the various tools, materials and machinery for cutting glass. Describe various principles and techniques for cutting glass on the job site. Describe various glass fabrication techniques, tools, and machinery. <p>Mirrors:</p> <ul style="list-style-type: none"> Describe the principles and procedures for light metal fabrications and installation. Explain the importance and use of mirrors in the marketplace. Describe and choose the best method for installing mirrors for each job. Identify and describe the use of hardware used for mirror mounting. Identify different types of drills used for creating holes in glass and mirror. <p>Shower and Tub Enclosures:</p> <ul style="list-style-type: none"> Describe the basic types of shower and tub enclosures. <p>Doors and Locks:</p> <ul style="list-style-type: none"> Identify various types of locks and their components. Recognize the terminology used with the function and installation of locks and bolts. Name the basic types of panic hardware; its purpose, terminology and general installation procedures. Discuss the requirements for door installation and construction and the effects of the environment on aluminum entrances. Discuss the effects of positive and negative air pressure and stack effect on entrances.

7.0 GLAZIER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
7.05 GLAZING SYSTEMS INSTALLATION AND LAYOUT, CONTINUED	<p>Handrail Systems:</p> <ul style="list-style-type: none"> Fabricate and install a handrail system using various anchoring and securing methods. <p>Break Metal:</p> <ul style="list-style-type: none"> Accurately measure the corners and radius walls prior to cutting the metal to insure proper fitting during installation. Determine layout and positioning of break metal prior to cutting. Demonstrate accurate fabrication of break metal on the job. Glazing Systems (General): Demonstrate the ability to locate the manufacturer's installation manuals for any glazing system. Demonstrate the ability to work with a team to fabricate and install glazing systems. Demonstrate safe work practices and selection and use of PPE on all glazing systems. Select and safely use the appropriate tools to install all glazing systems. Demonstrate the proper techniques for welding various glazing systems. <p>Curtain wall System:</p> <ul style="list-style-type: none"> Measure and layout precise Curtain wall control lines and reference points. Demonstrate the proper calculation of "tolerances" for building dimensions. Conduct a field inspection prior to Curtain wall layout. Demonstrate the assembly and installation of Curtain wall, including corner seals, glazing the wall and applying Curtain wall trim. <p>Ribbon Window and Pre-Glazed Systems:</p> <ul style="list-style-type: none"> Calculate glass sizes for framed openings using elevation drawings and details. Demonstrate the assembly and installation of Ribbon Window systems. 	<ul style="list-style-type: none"> Discuss the different types of automatic doors and the hardware associated. Describe measures that can be taken to prevent the effects of temperature extremes on aluminum entrances. Describe door size, construction and allowable clearances. Explain the importance of following hardware guidelines on proper door installation, adjustment methods and glazing techniques. <p>Handrail Systems:</p> <ul style="list-style-type: none"> Describe the different components of various types of handrail systems. Describe handrail system fabrication and its anchoring and securing methods. List the safety codes that relate to the installation of handrail systems. Define "tolerance" as it relates to general glazing systems layout and measurements. <p>Break Metal:</p> <ul style="list-style-type: none"> Describe the importance of measuring corners and radius walls when installing break metal. <p>Glazing Systems:</p> <ul style="list-style-type: none"> Describe the different design qualities of Curtain wall, Unitized, Pressure Wall, Ribbon Windows, Pre-Glazed systems. Describe the layout procedures for each of the glazing systems. Describe the fabrication techniques for each of the glazing systems. Describe the installation procedures for each of the glazing systems. List and describe the different types of tests used to determine the correct installation of glazing systems. Describe proper handling procedures and window material storage of each glazing system. Compare and contrast the differences between modular, single and multiple ribbon window system units. Identify the problems that are caused by inaccurate measurements of ribbon window systems.

7.0 GLAZIER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
7.05 GLAZING SYSTEMS INSTALLATION AND LAYOUT, CONTINUED	<ul style="list-style-type: none"> • Demonstrate the procedures for glazing the Ribbon Window system. • Demonstrate the installation of Pre-Glazed systems. • Unitized System: • Measure and layout materials needed for the installation of unitized systems. • Demonstrate the installation procedures to properly install manufacturer's unitized system materials. • Select and safely use the appropriate tools to install all glazing systems. <p>Pressure Wall:</p> <ul style="list-style-type: none"> • Demonstrate Pressure Wall fabrication techniques. • Demonstrate the Pressure Wall erection process for single span and multi-span buildings. • Apply the steps to prepare the Pressure Wall openings for glazing. • Install glass, pressure plates, and covers on a Pressure Wall job. • Perform the procedures for internal sealants, zone damming, and water diversion. <p>Storefront Layout and Installation:</p> <ul style="list-style-type: none"> • Measure a rough opening. • Fabricate and assemble a Storefront frame that uses shear block joinery. • Install Storefront metal and glass for new installations. • Fabricate and assemble a canned Storefront system. • Install, level, and plumb a given Storefront frame. • Drill holes in masonry with a hammer drill or pistol drill for a given masonry anchor. • Shim and anchor a given Storefront frame. <p>Spandrel Glass and Architectural Panels:</p> <ul style="list-style-type: none"> • Demonstrate the proper fabrication of an Architectural Panel. • Demonstrate the installation of Spandrel Glass, Architectural Panels, and Louver Systems. 	<ul style="list-style-type: none"> • Read and interpret manufacturer's directions and architectural drawings showing placement of Ribbon Window units. • Discuss the benefits of using pre-glazed systems. • Recognize Pressure Wall terminology and components. • Identify the steps for preparing the Pressure Wall openings for glazing. <p>Storefront:</p> <ul style="list-style-type: none"> • Describe the procedures associated with internal sealants, zone damming, and water diversion. • Describe components and materials of a Storefront including headers, sills, vinyl gaskets, shims, backer rods, anchors, sealants and setting blocks. • Explain the critical importance of proper sealant selection and application in Storefront installations. • Explain the importance of accurate field measurements. <p>Spandrel Glass and Architectural Panels:</p> <ul style="list-style-type: none"> • Identify the uses of Spandrel Glass and Architectural Panels. • Describe the components of Architectural Panel systems including layout, fabrication, and installation. • Describe the components of Louver Systems including layout and installation. • Describe the different types, colors, finishes and patterns of Spandrel Glass and Architectural Panel systems. • Describe thermal stress and its causes. • Describe Architectural Panel fabrication.

7.0 GLAZIER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
7.06 REPLACEMENT, RETRO-FIT, AND WEATHERIZATION	<ul style="list-style-type: none"> • Demonstrate the safe removal and disposal of broken glass. • Demonstrate the techniques for re-glazing various window systems. 	<ul style="list-style-type: none"> • Identify and use the proper safety equipment and procedures. • Identify and describe the various types of replacement and retro-fit windows.
7.07 SKYLIGHTS AND SLOPED GLAZING	<ul style="list-style-type: none"> • Demonstrate self-flashing curb and curb mount skylight mountings. • Demonstrate the use and installation of various kinds of fall protection. • Demonstrate safe handling practices for skylights. • Compare the dimensions and tolerances of the skylight support structure with dimensions on skylight shop drawings. • Demonstrate the assembly of skylight components. • Demonstrate the use of various glazing and skylight hand tools. • Troubleshoot and repair problems with tools, materials, layout, leaks and other installation inefficiencies. • Demonstrate caulking and anchoring techniques. 	<ul style="list-style-type: none"> • Describe the use and purpose of skylights in both residential and commercial architecture. • Identify the types of loads to which skylights may be exposed and explain the importance of adhering to the design of a sky lighting system. • Discuss the various types of glass and their strength and response to impact, thermal stress and movement, breakage and water or moisture. • Discuss fall protection, including anchor points, hardware options, safety nets, load, and scaffolds. • Describe safe practices for handling skylights and materials including scissor and boom lifts. • Describe safe installation methods including how to avoid walking on the glass. • Describe the use of shop drawings for identifying components and materials for installation. • Describe the assembly procedures and considerations for a given skylight. • Identify skylight hand tools and materials.
7.08 ENERGY GLAZING SYSTEMS (EGS)	<ul style="list-style-type: none"> • Demonstrate the proper fabrication of various EGS. • Demonstrate the proper installation of various EGS. • Demonstrate safe work practices and appropriate PPE when working with EGS. • Demonstrate proper material handling and installation with particular emphasis on the pigtail. 	<ul style="list-style-type: none"> • Explain how EGS gather, store, and re-produce energy. • Explain how EGS benefit property owners in regard to sustainability and the green initiative. • List and identify parts and components of various EGS. • Identify various EGS manufacturers' specifications for fabrication and installation. • Define and discuss a pigtail and its care and handling. • Describe how to handle and store photovoltaic (PV) panels.

7.0 GLAZIER, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
7.09 WELDING APPLICATIONS	<ul style="list-style-type: none"> • Operate the shielded metal arc welding process in all positions to AWS D1.1 acceptance criteria (stick). • Demonstrate how to manipulate the electrode to produce certain weld characteristics. • Operate the oxy fuel cutting process. • Operate the plasma arc cutting process. • Tack up weldments. • Weld single and multipass fillet welds in all positions using the Shielded Metal Arc Welding process. • Weld Groove welds in the flat, horizontal, vertical and overhead positions using the shielded metal arc welding process to given specifications. • Use Shielded Metal Arc Welding to produce stringer beads and weave beads in the flat and vertical positions. • Repair faulty fillet weld areas containing undercut, overlap, uneven fillet weld legs and undersized fillet welds. • Produce stringer beads and weave beads in the flat and vertical positions. • Demonstrate oxygen fuel cutting techniques to sever metals. 	<ul style="list-style-type: none"> • Define welding and list common welding processes. • Identify industries and applications where welding processes are performed. • Recognize welder safety and working conditions and apply acceptable safety preventative measures. • List personal protective equipment and identify attire that is sufficient in coverage and materials known to minimize skin burns caused by sparks, spatter, or radiation. • Identify welding types, joint design, and positions used in welded construction. • Interpret common welding symbols as established by the American Welding Society. • Identify arc welding procedures, equipment, and materials with safety. • Define basic terminology associated with the welding trade.

Glazier Course Description



COURSE

DESCRIPTION

GLZ 5000 Safe Work Practices

Hour/s: 4

Glass can be a very dangerous material that must be handled properly. To make every glazing job site as safe as possible, consistent and careful attention must be top priority from every employer and every worker. Cooperative and educated workers with a positive attitude and a carefully planned safety program are the key to making safety a top priority. It is the responsibility of the employer to provide a safe working environment that includes the proper maintenance of all equipment. The glazier must KNOW and FOLLOW all safety rules to protect him/her-self and other workers.

GLZ 5001 Safety Glazing Codes

Hour/s: 4

This module is designed to teach all aspects of safety glazing, including learning (and knowing where to find) the federal and local glazing laws and statutes, as well as becoming familiar with the major points in the nation's safety glazing laws. Students will also learn to identify safety glazing products and determine when it is required to use safety glazing materials.

GLZ 5002 Shop Machinery Safety

Hour/s: 4

Safety rules apply to all shop machinery and must be followed in order to reduce the risk of fire, electric shock, and personal injury. This course is designed to highlight general safety rules that are associated with shop machinery. It is not intended to be a step-by-step guide on the operation of shop machinery. Emphasis will be placed on reading and understanding the manufacturer's instruction manual before attempting to operate any machinery.

GLZ 5003 Swing Stage

Hour/s: 8

In this course, students will learn how to choose the best combination of swing stage equipment for each job, how to use and handle swing stage equipment safely and while using fall arresting equipment to prevent serious or fatal injuries.

GLZ 5004 Cold Weather Practices

Hour/s: 2

This course is designed to make students aware of the elements of cold weather.

COURSE	DESCRIPTION
GLZ 5005C Powder Actuated Tools (CERTIFICATION)	<p>Hour/s: 4</p> <p>Fastening systems require a variety of Powder Actuated Fasteners. Participants are required to demonstrate hands-on proficiency and pass a written examination that will be administered on-line. Upon completion participants will receive an Authorized Operator of Powder Actuated Tools Certification Card (Certification Period: Permanent).</p>
GLZ 5006 Art Stained Glass	<p>Hour/s: 4</p> <p>Art stained glass is more expensive, due to the labor intensive hand-blowing process necessary for its manufacture. The course will identify the materials and tools, discuss safety precautions, and different methods of staining glass.</p>
GLZ 5007 ASTM Codes	<p>Hour/s: 4</p> <p>Students will learn all the ASTM codes and show their understanding of how they apply to the glassworker trade.</p>
GLZ 5008 AGMT Prep	<p>Hour/s: 3</p> <p>This course is a pre-requisite course that must be taken to prepare for taking the Architectural Glass and Metal Technician (AGMT) Certification Program. The Architectural and Glass and Metal Technician Certification Program (AGMT) is designed to provide an independent assessment, through written and Practical means, of the knowledge, skills, and abilities of the experienced glazing technician in: Glazing Theory and the ability to practically apply that knowledge. Utilization of Tools of the Glazing trade and demonstration of Safe Work Practices. Demonstration of competency in Interpreting Construction Drawings and ability to Layout and Install various types of glazing systems for glass and architectural panels. Prerequisites: Must be able to demonstrate at least 7,500 hrs of glazing work of 5 years or more.</p>
GLZ 5009C AGMT (CERTIFICATION)	<p>Hour/s: 16</p> <p>The AGMT (Architectural Glass and Metal Technician) certification will be a full day written exam and a day hands-on. Prerequisites include documented 7500 Glazing work hours, at least OSHA 10 certification, and an ATR recommendation. At the end of training, instructors will be able to train and explain the Glazing Certification for local craftworkers to take and be certified at a qualified center, and assist in local recruitment of applicants (Certification Period: 48 months). All registrants will receive a study guide in advance. A written and physical assessment of the fundamental knowledge and skills required to proficiently perform foundational or basic glazing tasks. The emphasis of which will be on factors and elements that tend to minimize glazing related defects and failures, and conform to customer requirements.</p>

COURSE**DESCRIPTION**

**GLZ 5010-5014 Not Yet
Assigned**

**GLZ 5015C AGMT
Recertification**

Recertification of AGMT Certification which expires every 4 years. Each candidate must have completed 32 hours of continuing education within the scope of AGMT certification either as a student or instructor & at least 4,000 hours of work experience during the 4 years of certification.

**GLZ 5016-5099 Not
Yet Assigned**

**GLZ 5100I Math for
the Glazing Trades
(Instructor Access)**

Hour/s: 8

**GLZ 5100S Math for
the Glazing Trades
(Student Access)**

Mathematical accuracy is an important glazing skill. Accuracy in measuring, layout, fabrication, or in any aspect of the job is vital to ordering materials, installing with accuracy and completing a job on time. A basic knowledge of mathematical functions is crucial to the glazier who will need to apply that knowledge and use mathematical skills in applications specific to the glazing trade. Students in this course will learn measurement, addition, subtraction, multiplication, division, and integrated math as it applies to the glazing trade.

GLZ 5101 Hand Tools

Hour/s: 8

In this course, the glazier will be introduced to a foundation of knowledge regarding the types, varieties and function of the hand tools used to accomplish the glazier's tasks. Safety guidelines and the proper use of personal protective equipment will be reviewed and emphasized. Students will have the opportunity to handle and use any tools provided by the instructor during the class.

**GLZ 5102 Glass Cutting
and Fabrication**

Hour/s: 8

In this course, the glazier will learn various glass cutting techniques, and the tools and machinery used to accomplish the tasks. Safety guidelines and the proper use of personal protective equipment will be emphasized for cutting glass, mirrors, and laminates whether in a shop, or on the jobsite. Students will have the opportunity to practice and demonstrate basic cutting methods.

**GLZ 5103 Anodized and
Painted Finishes**

Hour/s: 8

This module will introduce the student to the processes for applying anodized and painted coatings on aluminum surfaces. Learning will include discussions and hands-on activities on protective coatings, general care and cleaning, as well as the storage and handling of anodized and painted finishes to preserve and prolong the life of the aluminum after installation.

COURSE**DESCRIPTION**

GLZ 5104 Transits and Leveling Devices	Hour/s: 8 Modern construction demands a high degree of accuracy in layout which can be attained through the use of levels and transit type instruments. This module covers the parts of a transit or level; setting up an instrument on any type of surface, and the basics of reading the instruments.
GLZ 5105 Bits-Tips-Taps-Fasteners	Hour/s: 4 Students will be able to identify the bits, tips, taps and fasteners. This will give students the ability to know which drill and bit to use for each task.
GLZ 5106 Math for the Glazing Trade II	Students in this course will reinforce measurement, addition, subtraction, multiplication, division, and integrated math as it applies to the glazing trade. Mathematical accuracy is an important glazing skill. Accuracy in measuring, layout, fabrication, or in any aspect of the job is vital to ordering materials, installing with accuracy and completing a job on time. A basic knowledge of mathematical functions is crucial to the glazier who will need to apply that knowledge and use mathematical skills in applications specific to the glazing trade.
GLZ 5107 Transits and Leveling Instruments II	Hour/s: 12 This course advances the student's knowledge and skills in using the parts of a transit or level; setting up an instrument on any type of surface, and the basics of reading the instruments.
GLZ 5108 Glazier Special Topics	Hour/s: 40 This course is used to provide in-class and hands-on training on special topics in the Glazier Trade. Note: Course content for this course is at the discretion of the instructor.
GLZ 5109 Total Positioning Systems (TPS) Fundamentals	Hour/s:40 Total Stations is an evolving layout technology that can be used by IUPAT Glaziers, as well as other crafts in the finishing trades. If trained properly, this technical layout should provide additional work opportunities for IUPAT members as workers and lead foreman.
GLZ 5110C HILTI (CERTIFICATION)	Hour/s: ? J/Man Upgrade, User class for the safe operation of Hilti brand powder-actuated equipment (Certification Period: Permanent).

COURSE**DESCRIPTION****GLZ 5111 Glaziers FG-2 License Prep**

Hour/s: 40

This course will provide the opportunity for Glaziers who are preparing to take the State of Connecticut FG-2 licensing test, to review the FTISNE Inc curriculum, the National Glazing Association curriculum and other materials covered on the examination.

GLZ 5112 Total Stations II

Hour/s: 8

The Glazing trade has evolved over the years and Glaziers continue to fabricate, repair, install and service many types of commercial and residential glazing systems. What has changed over the years is a large part of the trade now involves the building envelope. Glaziers must continue to read and interpret prints, shop drawings, window and door schedules and various specifications. Glaziers must also be able to take this information and transfer it to the lay out of the work to be installed. Total Stations is an evolving layout technology that can be used by IUPAT Glaziers, as well as other crafts in the finishing trades. If trained properly, this technical layout should provide additional work opportunities for IUPAT members as workers and lead foreman.

GLZ 5113 Introduction to the Glazing Trade/Total Stations III**GLZ 5114 Woods Powr-Grp**

Hour/s: 4

Classroom and hands-on instruction on the set up and use of the Wood Power cup.

GLZ 5115 Not Yet Assigned**GLZ 5116 Introduction to CNC**

Hour/s: 4

Students will learn the basic of CNC capabilities and its uses in the glassworking trades while giving students an opportunity to practice using a CNC machine.

GLZ 5117-5122 Not Yet Assigned

COURSE

DESCRIPTION

GLZ 5123 Trimble Robotic Total Stations

Hour/s: 24

This class will teach you how to utilize Trimble Robotic Total Stations for construction layout with Trimble FieldLink. We will go over the fundamentals of care, setting up, and successfully surveying in the construction world. Utilizing 2D and 3D drawings, we will connect the digital and physical worlds to lay out construction points as perfectly as possible, ensuring projects are built to spec, correctly, accurately, and efficiently using industry-leading layout technology.

GLZ 5124 Raise Robotics System for Layout Marking

Hour/s: 24

This course equips IUPAT participants with the skills needed to operate the Raise Robotic System for Layout Marking. Participants will learn how to use Trimble RTS with Raise's robotic platform to automate layout workflows on commercial construction projects. Participants will leave certified to operate the Raise Robot platform for safe, accurate, and productive robotic layout practices. Additional application-specific trainings will be offered in the future as new capabilities are introduced onto the Raise Robotics Platform.

GLZ 5125-5199 Not Yet Assigned

GLZ 5200 Sealants and Compatibility

Hour/s: 20

In this course, students will gain knowledge of sealant terminology, factors that determine sealant selection as well as the forms, classifications and properties of sealants. This course also covers the basic skills and knowledge needed to properly perform work related to sealant joint design and substrate preparation. The successful use of any sealant depends on the proper pairing of good joint design, proper substrate preparation, the use of a compatible sealant and proper installation techniques. Be familiar with three sided adhesion joints and why they should be avoided.

GLZ 5201 Sealant Application Testing and Failure

Hour/s: 20

Choosing the right sealant for a specific application depends on many different factors. Silicone or polyurethane sealants are used in almost all glazing applications and have proven to be the best on the market. In this course, students will gain a basic knowledge of selecting sealants; understanding the importance of sealant and substrate compatibility and the importance of tooling a joint. They will also discuss the use of Material Safety Data Sheets, common causes of sealant failure, remedial caulking and tests that ensure a quality sealant.

COURSE

DESCRIPTION

GLZ 5202 Sealants and Compatibility II

Hour/s: 8

In this course, participants will build upon their knowledge of sealant terminology, factors that determine sealant selection as well as the forms, classifications and properties of sealants. This course also covers the basic skills and knowledge needed to properly perform work related to joint design, sealant selection, substrate preparation, and sealant application. The successful use of any sealant depends on the proper pairing of good joint design, proper substrate preparation, the use of a compatible sealant and proper installation techniques.

GLZ 5203C PFI (CERTIFICATION)

Hour/s: ?

PFI routinely facilitate adhesion testing of the specific substrates which will be used on an upcoming project. This insures proper sealant selection and allows us to offer advice on surface preparation requirements for a water tight installation. This 4-hour class is structured to give the participants a better understanding of why sealants fail, and a better understanding of how sealants are selected for particular jobs (Certification Period: Permanent).

GLZ 5204C TREMCO (CERTIFICATION)

Hour/s:

When you complete this course, you should have a good knowledge of sealant terminology, be familiar with the various forms and properties of sealants. Be familiar with advantages and disadvantages of different types of sealants. Know the factors involved in selecting sealants. Have a basic understanding of common causes of sealant failure. An understanding of the factors of good joint design, three sided adhesion and the necessity for backer rod and bond breakers (Certification: Permanent).

GLZ 5205C PALMER Mirror Mastic (CERTIFICATION)

Hour/s:

Introduction to the PALMER Mirror Mastic products (Certification Period: Permanent).

GLZ 5300 Plans and Drawings

Hour/s: 5

A set of working plans, along with the written specifications, make up the "language of construction." Reading and understanding the relationship that one view or drawing has with another is a necessary skill. This course will introduce and familiarize students with the series of views of a set of plans and their relationship to each other. Students also learn to identify the symbols, abbreviations, and lines found on a set of plans and drawings.

COURSE

DESCRIPTION

GLZ 5301 Scales and Dimensions

Hour/s: 5

Measurements in the construction industry are seldom closer than an eighth of an inch. Therefore, the fractional rule usually is divided into 8ths or 16ths. In this course, students will recognize that a careful study of the plans should provide all needed scales and dimensions. This course introduces students to the fractional rule, and both the architect's and engineer's scale, and allows students to practice calculating measurements and determining the actual length of a scaled line using each type of scale.

GLZ 5302 Basics of Sketching

Hour/s: 5

Sketching is a technique used by craftsmen, suppliers, architects and engineers to communicate hard-to-describe details of a construction job. In this course you will learn the process of making technical drawings with the use of instruments, scales, and other mechanical equipment. Students will also have the opportunity to demonstrate sketching using freehand techniques.

GLZ 5303 Blueprint Reading: Perimeter Sheets

Hour/s: 5

A perimeter sheet originated as an estimating tool by a glazing systems manufacturer. Using perimeter sheets saves the shop the time and expense of making many detailed drawings. Students in this course will gain the skills and knowledge to enable them to fully utilize perimeter sheets on the job by learning to read the details and symbols of the plan as well as the navigational skills to get details from the perimeter sheet.

GLZ 5304 Blueprint Reading: Shop Drawings*

Hour/s: 5

In this course, Students will work closely reading and interpreting shop drawings for any given component of a building or structure. Shop drawings are a detailed drawing or set of drawings typically required for pre-fabricated components. The shop drawing normally shows more detail than the construction documents and is drawn to explain the fabrication and/or installation of a particular item. The style of the shop drawing is usually very different from that of the architect's drawing.

GLZ 5305 Blueprint Reading: Architectural

Hour/s: 5

Architectural drawings describe the physical form of a building and are the basis for all other drawings. They allow you to see how any feature fits into a whole and details the plans and elevations of a building. Students in this course will study various architectural drawings to learn how to accurately read and interpret the drawings for any type of structure.

COURSE**DESCRIPTION****GLZ 5306 Perimeter
Sheets Navigation**

Hour/s: 5

In this hands-on course, students will utilize perimeter sheets as they would on a job site by learning to properly navigate the details in an efficient manner.

**GLZ 5307 Contract
Documents and
Specifications**

Hour/s: 5

Specifications and contract documents describe the work to be done, the methods of construction, the standards of workmanship, the manner of conducting work, and the quality of materials and equipment to be used. Specifications and plans are used together and are written for each trade making the estimating and work performed more understandable for the contractors involved. In this course, students will be involved in practical discussions and hands-on activities that will give them the skills and knowledge needed to read, use and describe the components of specifications and finish schedules to all allied crafts.

**GLZ 5308 CAD
Drawings**

Hour/s: 4

Students will learn the basics of Computer Assisted Designs in both 2D and 3D to help glassworkers visualize the whole design.

GLZ 5309 PlanGrid

Hour/s: 8

Students practice reading blueprints using technology and equipment like PlanGrid.

**GLZ 5310-5399 Not Yet
Assigned**

COURSE

DESCRIPTION

GLZ 5400 Entrances and Related Hardware

Hour/s: 6

This course will introduce the Glazier to various types of hinges, pivots, closers, and accessories designed for installing doors. The sophisticated technology available to manufacturers provides specific installation instruction for the glazier, but requires a comprehensive understanding of the fundamental principles applied to door installations. The glazier should be able to determine the type of device which is best suited to a particular installation and execute that installation correctly and efficiently.

GLZ 5401 Mirrors Layout

Hour/s: 6

This course will introduce the Glazier to the principles of mirror fabrication and custom installation as it applies to specific portions of a building such as a wall, a door or entryway. Students will gain an understanding the role of mirrors in today's marketplace as well as its manufacturing process. The Glazier will also learn to properly handle and store mirror, recognize and resolve installation problems choose the appropriate types of hardware for a safe and secure installation, and learn to measure, transfer measurements, fabricate and finish mirror edges.

GLZ 5402 Setting Blocks-Spacers-Tapes-Gaskets

Hour/s: 4

This course will teach the proper use and placement of each product to prevent glass breakage, seal the opening against weather, and how to prevent window and glass failure. The importance of following the manufacturer's instructions for cleaning and preparing surfaces prior to applying tapes and installing systems will be stressed. The students will also learn to evaluate products to determine the compatibility of setting blocks, spacers, tapes and gaskets with sealants and other components.

GLZ 5403 Curtain Wall Systems

Hour/s: 8

The laying out of a Curtain Wall system can be complex. It requires transferring critical dimensions, locations, or benchmarks from approved blueprints (or drawings) to an actual structure. The Student in this course will walk away with the skills and knowledge necessary to establish reference points and control lines for accurate Curtain Wall layout. He/she should be able to establish and maintain workable Curtain Wall tolerances while also being familiar with the specific tools used when laying out Curtain Wall structures, such as, transits or lasers, and plumb bobs and chalk lines.

COURSE

DESCRIPTION

GLZ 5404 Security Glazing

Hour/s: 6

This course is designed to enable the Glazier to apply the necessary skills and knowledge to their jobs regarding the uses of security glass in business and industry, the types of security glass products available, and the handling and installation of these products. Students will discuss the various types of glass; their specifications for use, i.e., hurricane-resistant, bullet or missile resistant, other security applications, and be exposed to a sampling of these glass products.

GLZ 5405 Structural Glazing

Hour/s: 6

This course is designed to enable the Glazier to learn the components of structural glazing systems and the factors surrounding the construction of the system with specific regard to safety considerations, proper surface preparation, and adherence to MSDS requirements for primers, solvents and sealants. The students will also be able to demonstrate basic knowledge of silicone sealant application techniques to structural glazing.

GLZ 5406 Introduction to Storefronts

Hour/s: 8

This introductory course will enable the Glazier to learn about the materials commonly used in the installation of any storefront. Students in this course will discuss architectural metals and other materials used in storefront fabrication, including cross-section drawings of metal extrusions, such as headers and jambs.

Students may be introduced to a sampling of architectural metal products used in the industry.

GLZ 5407 Spandrel and Architectural Panel Systems

Hour/s: 6

This course is designed to provide the Glazier with the knowledge to properly and safely handle, store, fabricate and install spandrel and porcelain glazing panels. Students will be exposed to a sampling of spandrel and architectural panel systems, glass, and other materials and participate in hands-on demonstrations and practice activities.

GLZ 5408 Brake Metal

Hour/s: 6

Instruction on brake metal will occur in the lab as hands-on instruction or on-the-job learning in the field. Students will learn how to manufacture metal components by cutting, bending, and forming metal to meet the requirements of the job.

COURSE**DESCRIPTION****GLZ 5409 Insulated and High Performance Glass**

Hour/s: 4

Insulated glass using high performance products are the most effective products that can be used to save energy and cut heating and cooling costs. This course introduces students to the terminology, components, fabrication and installation of insulated and high performance glass. Students will learn the procedures for handling and storing glass units; choosing the proper sealant selection and application, as well as gain knowledge of high performance glass products and their coatings.

GLZ 5410 Plastics

Hour/s: 4

This course will introduce the students to plastics; their types, purpose and use in today's glazing applications. Instruction will include installation techniques, proper handling and storage, the use of safety equipment, and in-depth discussions on thermal expansion and contraction, as well as hands-on practice on a variety of methods for cutting or molding plastic.

GLZ 5411 Aquariums-Shower Doors-Tub Enclosures-Showcases

Hour/s: 4

This course is designed to ensure that the Glazier is equipped with the skills and knowledge to build and/or install aquariums, shower doors, tubs and showcases using high quality workmanship to insure a watertight seal. Students will learn the installation and safety procedures for each of these products, including the safety regulations and general specifications regarding public viewing windows and showcase glazing techniques.

GLZ 5412 Aluminum Entrances

Hour/s: 8

The entrances to buildings must be carefully planned to insure that they meet the demands and safety needs of not only the pedestrians using the entranceway but also the building occupants and outside sidewalk pedestrians. Many factors are considered when planning the construction of a building entrance. Students in this course will gain skills and knowledge with regard to basic entrance requirements, including trade terminology, effects of temperature and other outside elements, storage and handling techniques, and door installation for public and/or commercial buildings.

GLZ 5413 Locks and Bolts

Hour/s: 6

Securing doors and entrances with locks and bolts requires serious consideration of the building, room or entryway that is to be used. Depending on the nature of the building, its occupants and/or business to be conducted within will determine the type of locks and bolts to be used. New hardware items; its components and terminology, will be introduced in this lesson. A glossary of terms with which to be familiar as well as discussion and demonstration of how locks and bolts are installed and how they work will give the Student a firm understanding of the use and function of locks and bolts.

COURSE

DESCRIPTION

GLZ 5414 Revolving Doors

Hour/s: 6

This course introduces the students to the terminology and types of revolving doors. Students will explore the advantages for using revolving doors, and learn the general installation procedures and basic methods for making adjustments to revolving doors through discussions, demonstration and hands-on practice.

GLZ 5415 Panic Hardware

Hour/s: 8

Panic hardware is an exit device that is required by law in public places for reasons of life safety. The hardware, when properly installed, is designed to release a door's latching bolt when the actuating bar is depressed allowing occupants of a building to exit, particularly in an emergency situation, to exit with ease and without incident regarding the door's ability to open. Students in this course will learn the purpose, basic types, and terminology of panic hardware.

GLZ 5416 Ribbon Window Systems

Hour/s: 6

Ribbon window systems are a dealer fabricated, extruded aluminum window system in which the exterior face may or may not be thermally isolated from the interior. Students in this course will become familiar with the three basic ribbon window systems; have a basic knowledge of ribbon window material storage and handling procedures, as well as fabrication, erection and glazing techniques for each system.

GLZ 5417 Pressure Wall

Hour/s: 6

Pressure wall has been used in the glazing trade for approximately three decades. It is one of the most frequently used Curtain Wall systems available. Students in this course will learn Pressure wall components and terminology, fabrication techniques; the erection process for both single and multi-span buildings, as well as the steps for preparing Pressure wall openings for glazing. Additionally, the glazier will learn to install the glass, pressure plates and covers on a Pressure wall job and become familiar with the procedures associated with internal sealants and water diversion.

GLZ 5418 Unitized Glazing Systems Installation

Hour/s: 8

This course will provide a working knowledge of the layout, fabrication, and installation of unitized glazing systems. Through observation, discussion and hands on experiences, students will gain knowledge and technical skills in the installation of unitized systems ranging from traditional to complex designs, as determined by the manufacturer. Particular concentration will be focused on common and critical safety knowledge and practices for all workers and personnel performing unitized glazing on a jobsite.

COURSE**DESCRIPTION****GLZ 5419 Curtain Wall Systems II**

Hour/s: 12

This course will build upon the Glazier's knowledge curtain wall methods, standards and safe working practices. Students in this course will further analyze the proper storage and handling techniques for curtain wall materials, pressure equalization, and the rain screen principle. Students will also begin to interpret the impact Curtain wall has on energy conservation in building design.

GLZ 5420 Curtain Wall Systems III

Hour/s: 4

This course will build upon the Glazier's knowledge curtain wall methods, standards and safe working practices. Students in this course will further analyze the proper storage and handling techniques for curtain wall materials, pressure equalization, and the rain screen principle. Students will also begin to interpret the impact Curtain wall has on energy conservation in building design.

GLZ 5421 Kimbell Art Museum Extension - GIG Facades Inc. Installation

Hour/s: 4

These project materials provide a study of expansion work performed on the Kimbell Art Museum in Fort Worth, Texas. The project includes elements comprising a total of 2,403 rotatable louvers, equipped with photovoltaic modules, installed over the glass roof to regulate the incidence of light through the glass roof into the exhibition galleries. The materials include the method statement, drawing list assembly and details, an installation video, as well as the distribution instructions for each element, provided and installed by GIG Facades Inc.

GLZ 5422C Green Advantage - Curtain Wall Installer (CERTIFICATION)

Hour/s: 32

The Green Advantage Certified Curtain Wall Installer (GAC/CI), a specialty trade certification. Built on the foundation of Green Advantage Certified Associate (GACA) or Green Advantage Certified Practitioner (GACP) certification. Part I - GAC/CI written exam, designed to test the candidate's knowledge, skills & abilities related to green building. Passing score results in one of the green builder certifications. Part II tests the candidate's knowledge, skills & abilities related to curtain wall installation (Certification Period: 36 months).

Member Card Abbreviation: Green Adv - Curtain Wall Inst

COURSE**DESCRIPTION**

GLZ 5423C GRACO: Spray Application (CERTIFICATION)	Hour/s: 32 Capital Tape specializes in pressure sensitive foams and films for the glass industry providing products for mounting, glazing, sealing, gasketing, sound deadening, and vibrating dampening. Adhesive performance ranges from general purpose mounting to semi-structural adhesion (4-Hour) (Certification Period: Permanent).
GLZ 5424C YKK (CERTIFICATION)	Hour/s: 4 This course will cover the proper Application of Storefront, Window Walls and Curtain Walls While storefronts, window walls, and curtain walls are all fenestration systems; they do in fact have distinctive differences that dictate where they should be installed on a building. Participants in this session will learn what differentiates each type of system and more importantly which system to specify for their next project. It is a 4-hour course (Certification Period: Permanent).
GLZ 5425C Flat Glass II - CT (CERTIFICATION)	Hour/s: ? Connecticut License for installing Flat Glass (Certification Period: Permanent).
GLZ 5426C KAWNEER 1600 Curtain Wall (CERTIFICATION)	Hour/s: ? Introduction to KAWNEER brand 1600 curtain wall products (Certification Period: Permanent).
GLZ 5427C KAWNEER Closers (CERTIFICATION)	Hour/s: ? Introduction to KAWNEER brand door closers (Certification Period: Permanent).
GLZ 5428C KAWNEER Door and Hardware (CERTIFICATION)	Hour/s: ? Introduction to KAWNEER brand doors and hardware (Certification Period: Permanent).
GLZ 5429 Glass Handling	Hour/s:4 Safe and proper handling of glass
GLZ 5430 JLM Door Hardware and Installation Techniques	Hour/s: 8 JLM Door hardware basics, proper techniques in hardware installation, and new types of hardware.

COURSE**DESCRIPTION**

GLZ 5431 School Guard Glass Installation Overview	Hour/s: 1 The Finishing Trades Institute and School Guard Glass™ have partnered to bring you the fundamental skills and knowledge required to properly install SGG products. This module is an introduction and overview of the installation process and is the precursor to the hands-on installation training.
GLZ 5432 Green Advantage Exam Operators	Hour/s: 8 Green Advantage Exam Operators
GLZ 5433C Arlington Glass Manipulator (CERTIFICATION)	Hour/s: 4 The Arlington Glass Manipulator training is machine-specific training developed from the user manual of the manipulator itself. Following OSHA and the manufacturer guidelines of safe and proper operating procedures, this course is delivered using classroom and hands-on techniques (Certification Period: 60 months).
GLZ 5434C Schuco Curtain Wall (CERTIFICATION)	The Schuco FW60 is a 60mm wide stick curtain wall system using vertical mullion profiles and overlapping horizontal transom profiles with an overall drainage concept. The system requires the knowledge of some unique tools as well as specialized hands-on training with some standard items for installation and assembly (Certification Period: 60 months).
GLZ 5435 Dorma	Hour/s: 2 Lecture hall training conducted by manufacturer using proper products.
GLZ 5436C Door Hardware (CERTIFICATION)	Hour/s: 8 The course introduces door hardware basics, proper techniques in hardware installation, and new types of hardware (Certification Period: Permanent).
GLZ 5437C Interior Glass Partitions (CERTIFICATION)	Hour/s: 4 The course covers basic framing and glazing of interior office partitions. It is a continuing education class (Certification Period: 60 months).
GLZ 5438 Torch Burning and Cutting	Hour/s: 4 This is a 4-hour course designed to give basic awareness of the fundamentals of using a acetylene torch to burn and cut steel.

GLZ 5439-5442 Not Yet Assigned

COURSE**DESCRIPTION****GLZ 5443 Command
Access Electro-
Mechanical Solutions**

Hour/s: 4

Students will learn basic electronic principles for low voltage electrified hardware, connect loads to power supplies, build circuits, and understand the proper use of an electric multimeter. The training includes hands-on experience connecting electric locks, monitoring switches, and low power emitting devices for fail safe locks.

**GLZ 5444-5499 Not Yet
Assigned**

Hour/s: 10

This introductory course will enable the Glazier to learn the fundamental principles, skills and knowledge to perform the work of a Weatherization Installer/Technician. The fundamentals outlined in the modules of this course will lay the groundwork for new/existing weatherization workers interested in understanding and expanding on his/her knowledge of Weatherization.

COURSE**DESCRIPTION****GLZ 5500 Glass Replacement and Putty Glazing**

Hour/s: 10

Glass replacement is a prominent part of the glazing trade. Replacing the glass, however, is not the most difficult part. Once the broken or damaged glass has been removed and the new glass is cut to the correct size, it is usually no more than a routine task to install all it. Students will gain knowledge in the procedures used for removing broken glass as well as an appreciation and working knowledge of the safety guidelines to be followed when removing and handling broken or damaged glass. By the completion of the lesson, the participating glaziers will have the opportunity to demonstrate the preparation prior to sealing a lite of glass and installing a lite of glass using putty as a sealing compound.

GLZ 5501 Weatherization

Hour/s: 10

This introductory course will enable the Glazier to learn the fundamental principles, skills and knowledge to perform the work of a Weatherization Installer/Technician. The fundamentals outlined in the modules of this course will lay the groundwork for new/existing weatherization workers interested in understanding and expanding on his/her knowledge of Weatherization.

GLZ 5600 Introduction to Skylights and Sloped Glazing

Hour/s: 20

In this course, the glazier will be introduced to the basics of skylights and sloped glazing. Students will discuss various applications of skylights and sloped glazing systems, terms and types of glass used in these systems and the importance of following specific manufacturing guidelines during installation.

GLZ 5700 Introduction to Photovoltaics

Hour/s: 20

This introductory course will enable the Glazier to learn the history of solar energy and its progression to present day. The students will discuss and review with hands-on, where possible, the materials commonly used in the installation of any photovoltaic system. Students will be able to identify the components required to make a complete system and how each component interacts with the system. Students will learn how to safely connect and disconnect a photovoltaic system.

GLZ 5800C Construction Shielded Metal Arc Welding (SMAW) - Welding Fillet (CERTIFICATION)

Hour/s: 80

Students have the theoretical and practical skills necessary to become a welder. Students will examine the fundamentals of the Shielded Metal Arc Welding (SMAW) process including safety considerations and precautions and terminology.

This course will provide students with hands-on experience in SMAW in flat, horizontal, vertical, and overhead positions. Instruction in oxygen fuel cutting is also highlighted. The initial Certification expires after 120 days, unless students log their hours (Certification Period: 36 months).

Member Card Abbreviation: Construct SMAW Welding Fillet

COURSE**DESCRIPTION**

GLZ 5801C Welding 3-G (CERTIFICATION)	Hour/s: 40 These courses cover safety procedures, metal characteristics and welding applications. Certifications in many welding processes and positions are the outcome of these courses. Welding certification is a 40-hour course (Certification Period: Permanent).
GLZ 5802C Welding 4-G (CERTIFICATION)	Hour/s: 40 These courses cover safety procedures, metal characteristics and welding applications. Certifications in many welding processes and positions are the outcome of these courses. Welding certification is a 40-hour course (Certification Period: Permanent).
GLZ 5803 Welding Certification Retainment	Hour/s: 4 Keeps your welding certification current. Per AWS your welding certification is only good for 6 months unless you have done some welding on a job and have it documented. To help keep your welding certification current contact your local training center to reschedule. This is a 4-hour class.
GLZ 5804C Welding AWS A5.1 (CERTIFICATION)	Hour/s: 8 Certification on welding for AWS A5.1 (Certification Period: Permanent).
GLZ 5805C Welding 1-G (CERTIFICATION)	Hour/s: 50 This course prepares students for a 1G virtual welding certification and more advanced students should obtain 3G and 4G certifications in welding. Students must pass these certifications through the American Welding Society (AWS) certification program in order to complete the course. Students will learn how to prepare all related applications and paperwork as well as the requisite welding samples. Students will have the opportunity to practice their techniques on simulators as well as actual welding equipment. (Certification Period: 12 months).
GLZ 5806 Introduction to Welding	Hour/s: 2 The course provides an overview of all safety regarding welding applications. This is a mandatory requirement of anyone wishing to precede to Welding 1 or Welding 2 certifications.

COURSE**DESCRIPTION**

GLZ 5807 Construction Shielded Metal Arc Welding (SMAW) II	Hour/s: 16 Students have the theoretical and practical skills necessary to become a welder. Students will examine the fundamentals of the Shielded Metal Arc Welding (SMAW) process including safety considerations and precautions and terminology. This course will provide students with hands-on experience in SMAW in flat, horizontal, vertical, and overhead positions. Instruction in oxygen fuel cutting is also highlighted. The initial Certification expires after 120 days, unless students log their hours (Certification Period: 36 months).
GLZ 5808 Construction Shielded Metal Arc Welding (SMAW) III	Hour/s: 24 Students have the theoretical and practical skills necessary to become a welder. Students will examine the fundamentals of the Shielded Metal Arc Welding (SMAW) process including safety considerations and precautions and terminology. This course will provide students with hands-on experience in SMAW in flat, horizontal, vertical, and overhead positions. Instruction in oxygen fuel cutting is also highlighted. The initial Certification expires after 120 days, unless students log their hours (Certification Period: 36 months).
GLZ 5809 Construction Shielded Metal Arc Welding (SMAW) IV	Hour/s: 32
GLZ 5810 General Welding for the Glazier Trade	Hour/s: 24 Students have the theoretical and practical skills necessary to become a welder. Students will examine the fundamentals of the Shielded Metal Arc Welding (SMAW) process including safety considerations and precautions and terminology. This course will provide students with hands-on experience in SMAW in multiple situations.
GLZ 5811 General Welding for the Glassworker Trade	Hour/s: 24 Students have the theoretical and practical skills necessary to become a welder. Students will examine the fundamentals of the Shielded Metal Arc Welding (SMAW) process including safety considerations and precautions and terminology. This course will provide students with hands-on experience in SMAW in multiple situations.

GLZ 5812-5899 Not Yet Assigned



Hydro Blaster/Vacuum Technician

O*NET-SOCCODE: 53-7061.00

RAPIDSCODE: 1110-HY

Course Competencies

The Program level curriculum builds upon the foundation of the core curriculum skills, knowledge, and abilities. At the program level, occupation-specific standardized curriculum is designed by an ad-hoc committee comprised of the FTI Curriculum Department, IUPAT/iFTI subject matter experts, employers, manufacturers, and associations.

Apprentices will be assessed on their acquisition of knowledge, skills and abilities in the core curriculum through hands-on and written tests as well as OJL performance measures.

Additionally, the apprentices will integrate their core knowledge, skills and abilities into the pursuit of specific occupational training throughout the term of their apprenticeship. This program specific training is designed to build the technical and professional skills needed by the crafts person to successfully perform his or her trade profession.

Apprenticeship Program

The Hydro Blaster/Vacuum Technician Apprenticeship Program is a new offering co-sponsored by the IUPAT and iFTI to meet the ever-changing needs of the industry and the affiliates it serves. The new apprenticeship program ensures that apprentices will learn the theoretical knowledge and the practical skills necessary to be a successful Hydro Blaster/Vacuum Technician.

During this program of study, apprentices will successfully complete the IUPAT/iFTI core curriculum and integrate it into the Hydro Blaster/Vacuum Technician occupation specific training. Apprentices successfully completing this program apply their skills and abilities as Hydro Blasters and Vacuum Technicians.

Description of Occupation

Hydro Blaster/Vacuum Technician transports, performs set-up, inspects, operates, maintains & repairs high pressure water blasting equipment and industrial vacuuming equipment to perform proper removal, containment, transporting, and disposal of both hazardous and non-hazardous materials for the purpose of cleaning.



Program Level Competencies

With reference to each of the respective areas of the Hydro Blaster/Vacuum Technician trade, apprentices successfully completing this program will be able to:

- ✓ Explain and demonstrate the safe and proper set-up of the hydro blasting equipment.
- ✓ Explain and demonstrate the operation and recognition of precise performance of the hydro blasting equipment.
- ✓ Explain and apply the most effective and safe methodology in transporting hydro blasting equipment.
- ✓ Recognize and repair hydro blasting equipment in a manner that will ensure safety, maximum performance, and prevent down time.
- ✓ Explain and apply the most effective and safe methodology in vacuuming with extremely powerful and dangerous equipment in various settings and conditions.
- ✓ Recognize and repair the problems that are associated with extremely powerful Vacuum Systems.
- ✓ Complete the state requirements for a Commercial Driver's License (C.D.L.) minimum Class B with Hazmat Endorsement, Air Brake Endorsement and Tanker Endorsement.

Suggested Program of Study

The IUPAT/IFTI Program of Study for the Hydro Blaster/Vacuum Technician Curriculum On-the-Job-Learning (OJL) and Related Instruction (RI) is outlined below. Under this hybrid approach an apprentice must participate in the indicated minimum number of hours of OJL for each category of the program. The Program Sponsor is responsible for determining the number of RI hours that an apprentice must participate in based on the FTI guidance, local needs, and the mandated minimum of 144 hours per year (29 CFR 29.5(b)(4)). See the table below:

STD CAT #	CATEGORY NAME	OJL HRS	RI HRS
8.01	Health and Safety for the Hydro Blaster	320-480	16
8.02	Introduction to Hydro Blasting Trade	320-400	16
8.03	Hydro Blasting Equipment	560-640	24
8.04	Hydro Blasting Techniques	560-640	24
8.05	Hydro Blasting Maintenance	160-400	16
8.06	Vacuum Technician Techniques	560-640	40
8.07	Vacuum Technician Maintenance	160-400	40
8.08	C.D.L. Class B with HAZMAT Endorsement	320-400	40
		2992-4032	312

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
	1.0-3.0		Core Curriculum	32	96
8.01	HVT	6000-6099	Health and Safety for the Hydro Blaster	320-480	16
			Course Code and Course Name	Hours	Months Valid
			HVT 6000 Health and Safety	16	N/A
			HVT 6001-6099 Not Yet Assigned		
8.02	HVT	6100-6199	Introduction to Hydro Blasting Trade	320-400	16
			Course Code and Course Name	Hours	Months Valid
			HVT 6100 Introduction to Hydro Blasting Trade	16	N/A
			HVT 6101 Hydro blaster-Vacuum Truck	40	N/A
			Technician Special Topics		
			HVT 6102-6199 Not Yet Assigned		
8.03	HVT	6200-6299	Hydro Blasting Equipment	560-640	24
			Course Code and Course Name	Hours	Months Valid
			HVT 6200 Hydro Blasting Equipment	24	N/A
			HVT 6201 Introduction to Hydro Mobile	4	N/A
			HVT 6202-6299 Not Yet Assigned		
8.04	HVT	6300-6399	Hydro Blasting Techniques	560-640	24
			Course Code and Course Name	Hours	Months Valid
			HVT 6300 Hydro Blasting Techniques	24	N/A
			HVT 6301 Wet Abrasive Blasting	24	N/A
			HVT 6302-6399 Not Yet Assigned		
8.05	HVT	6400-6499	Hydro Blasting Maintenance	160-400	16
			Course Code and Course Name	Hours	Months Valid
			HVT 6400 Hydro Blasting Maintenance	16	N/A
			HVT 6401-6499 Not Yet Assigned		
8.06	HVT	6500-6599	Vacuum Technician Techniques	560-640	40
			Course Code and Course Name	Hours	Months Valid
			HVT 6500 Vacuum Technician Techniques	40	N/A
			HVT 6501-6599 Not Yet Assigned		
8.07	HVT	6600-6899	Vacuum Technician Maintenance	160-400	40
			Course Code and Course Name	Hours	Months Valid
			HVT 6600 Vacuum Technician Maintenance	40	N/A
			HVT 6601-6602 Not Yet Assigned		

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
8.08	HVT	6700-6799	C.D.L. Class B with HAZMAT Endorsement	320-400	40
			Course Code and Course Name	Hours	Months Valid
			HVT 6700 C.D.L. Class B with HAZMAT Endorsement	40	N/A
			HVT 6701-6799 Not Yet Assigned		
				2992-4032	312

HVT Course Competencies

This table identifies the Hydro Blaster/Vacuum Technician course competencies that the apprentices will complete to work successfully as a Hydro Blaster/Vacuum Technician.

8.0 HYDRO BLASTER/VACUUM TRUCK TECHNICIAN

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
8.01 HEALTH AND SAFETY AWARENESS	<ul style="list-style-type: none"> Don (put on), doff (remove), inspect, and maintain the proper PPE that should be worn including, but not limited to: <ul style="list-style-type: none"> Head Eyes Hands Feet Face Ears Body Respiratory Perform a job analysis for safe working conditions: <ul style="list-style-type: none"> Attend pre-job safety meetings Observe Vessel Entry/Confined Space regulations. Adhere to site specific safety rules and federal regulations Read and interpret MSDS Establish and maintain a safe working perimeter Safely demonstrate the proper use and maintenance of hydro blasting/vacuuming equipment including, but not limited to: <ul style="list-style-type: none"> Mechanical System Safety Hose Safety Electrical System Safety Surface Cleaning Pump Safety Tube Cleaning Fitting Safety Lance Safety Vehicle Safety Administer the proper medical procedures associated with hydro blasting/vacuuming injuries. 	<ul style="list-style-type: none"> List the proper PPE that should be worn during hydro blasting. Recognize unsafe job site conditions. Explain the importance of maintaining and using equipment safely. Identify the nature of hydro blasting injuries. Identify the proper medical procedures associated with hydro blasting injuries. Define the key terms relating to Hazardous Waste. Explain the operations that are covered by the HAZWOPER standard (the scope of the standard). Compare and contrast the characteristics of a confined space with those of a permit-required blast space. Identify 29 CFR 1910.146 as OSHA's General Industry Confined Spaces Rule. Describe the qualifications of a competent Aerial/Scissor Lift Operator. Classify environmental hazards and related safety precautions, including fall protection, for aerial/scissor lift operations. Describe the responsibilities, warning and instructions of the operator when working on an aerial platform. Identify types of scissor lifts; their components and operations.
8.02 INTRODUCTION TO THE HYDRO BLASTING TRADE	<ul style="list-style-type: none"> Identify and explain the basic terminology used in the hydro blasting trade. Apply the concepts of pressure, flow rate, and velocity as they pertain to the hydro blasting trade. Identify and explain the components of the hydro blasting system, including: <ul style="list-style-type: none"> Set-up, operation, delivery, and shut-down Roles and responsibilities of the hydro blasting team. 	<ul style="list-style-type: none"> Explain the concepts of pressure, flow rate, and velocity as they pertain to the hydro blasting trade. Explain the historical significance of the hydro blasting trade. Define hydro blasting and recognize the four categories of hydro blasting. Identify the applications in which hydro blasting is used. Determine the advantages and limitations of hydro blasting. Identify and explain the basic terminology used in the hydro blasting trade.

8.0 HYDRO BLASTER/VACUUM TRUCK TECHNICIAN, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
8.02 INTRODUCTION TO THE HYDRO BLASTING TRADE	<ul style="list-style-type: none"> Differentiate between the four basic categories of hydro blasting, including: <ul style="list-style-type: none"> Low Pressure Water Washing High Pressure Hydro blasting High Pressure Water Washing Ultra-High Pressure Hydro blasting 	
8.03 HYDRO BLASTING EQUIPMENT	<ul style="list-style-type: none"> Identify and explain the various components and operations of the hydro blasting system, including: <ul style="list-style-type: none"> Power (Drive) Units Gas Diesel Propane, etc. Identify and explain the various components and operations of the hydro blasting system, including: <ul style="list-style-type: none"> Pumps Crankshaft (power end) Piston (fluid end) Identify and explain the various components and operations of the hydro blasting system (valves), including: <ul style="list-style-type: none"> Dump Valve Relief Valve Changeover Valve Identify and explain the various components and operations of the hydro blasting system, including: <ul style="list-style-type: none"> Hoses Lead Hose Feed Hose Work Hose Identify and explain the various components and operations of the hydro blasting system: <ul style="list-style-type: none"> Guns Dry Shut-off Dump Lance (Flex and Rigid) Identify and explain the various components and operations of the hydro blasting system: <ul style="list-style-type: none"> Nozzles Self-propelled or air-propelled Rotating Single orifice Non-Rotating Multiple orifice, up to 5 tips Fan or zero-degree Perform daily inspections to insure safe operation of hydro blasting equipment. 	<ul style="list-style-type: none"> Identify the various components of the hydro blasting system. Perform daily inspections to identify problems with equipment. Apply the operational productivity procedures identified by industry standards.

8.0 HYDRO BLASTER/VACUUM TRUCK TECHNICIAN, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
8.03 HYDRO BLASTING EQUIPMENT, CONTINUED	<ul style="list-style-type: none"> • Apply the operational productivity procedures identified by industry standards. • Identify potentially hazardous chemicals, materials and conditions and the requirements for loading and unloading the truck. 	
8.04 HYDRO BLASTING TECHNIQUES	<ul style="list-style-type: none"> • Recognize an example of a pre-service and operational checklist for high pressure water cleaning. • List and demonstrate, in the correct order, the proper pre-operating procedures used in hydro blasting, including: <ul style="list-style-type: none"> Pre-job Planning <ul style="list-style-type: none"> › Area Limits › Hook-up • List and demonstrate, in the correct order, the proper safe operating procedures used in hydro blasting, including: <ul style="list-style-type: none"> Start up <ul style="list-style-type: none"> ○ Effect of Pressure Change Operational Check <ul style="list-style-type: none"> ○ Operator Position Tightening and Adjusting Components <ul style="list-style-type: none"> ○ Use of Balanced Nozzle Orifices Equipment Malfunction <ul style="list-style-type: none"> ○ Procedures for Entering the Working Area Reaction Force <ul style="list-style-type: none"> ○ Additional Protection Operating Pressure and Orifice Selection <ul style="list-style-type: none"> ○ Protective Equipment ○ Pressurizing the System • Demonstrate the proper safe operating procedures for the following hydro blasting techniques: <ul style="list-style-type: none"> Shot gunning <ul style="list-style-type: none"> ○ Rigid Lancing Line Moleing <ul style="list-style-type: none"> ○ Stationary Oscillating Head Flex Lancing 	<ul style="list-style-type: none"> • Recognize an example of a pre-service and operational checklist for high pressure water cleaning. • List and demonstrate, in the correct order, the pre-operating procedures used in hydro blasting. • List and demonstrate, in the correct order, the operating procedures used in hydro blasting. • List and demonstrate, in the correct order, the operating procedures used in hydro excavation.

8.0 HYDRO BLASTER/VACUUM TRUCK TECHNICIAN, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
8.05 HYDRO BLASTING MAINTENANCE	<ul style="list-style-type: none">Inspect and perform routine and scheduled maintenance checks as recommended by the manufacturer’s specifications on the following components of the hydro blasting system, including:<ul style="list-style-type: none">Power (Drive) UnitPressure PumpWater Inlet, Reservoir, and Booster PumpsFilters and StrainersHose AssembliesNozzlesGuns✓ Lance Connections✓ Trigger and Valve ControlsFoot Control ValvesElectrical Equipment✓ Electrical boxes✓ Connections✓ Switches✓ Cables, and✓ Fittings✓ Rupture (Bursting) Discs✓ TrailersUse only the tools and parts recommended by the manufacturer for assembling and disassembling high pressure components.Inspect all components of a high pressure water jet system to make sure they are of the correct size, thread, and pressure rating for the use intended (Compatibility).Adhere to the manufacturer’s recommendations for circulating antifreeze through the system’s water lines.	<ul style="list-style-type: none">Inspect and perform daily maintenance checks on all components of the system.Perform routine inspections of all external and internal parts of valves, fittings and gun components of the system.Provide scheduled servicing to the pump and major components of the system.
8.06 VACUUM TECHNICIAN TECHNIQUES	<ul style="list-style-type: none">Identify and explain the basic terminology used in the Vacuum Truck Technician trade.Demonstrate the proper operating procedures used in vacuuming including:<ul style="list-style-type: none">Hoses are properly routedSafety Tees are properly installedVacuum equipment is working properlyVehicle is properly groundedWork areas are properly barricadedApply the concepts of pressure and vacuum as they pertain to the vacuuming trade.	<ul style="list-style-type: none">Explain the history of Pressure Truck and Vacuum and its applicationsDefine the basic terminology and training requirements associated with the Vacuum Technician trade.Identify the components of the Pressure Truck and Vacuum.Identify the appropriate Personal Protective Equipment used in the Vacuum Truck trade.List and demonstrate, in correct order, the pre-operating procedures used in vacuuming.Identify potentially hazardous chemicals, materials and conditions and the requirements for loading and unloading the truck.List and demonstrate, in correct order, the general operating procedures used in vacuuming.

8.0 HYDRO BLASTER/VACUUM TRUCK TECHNICIAN, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
8.06 VACUUM TECHNICIAN TECHNIQUES, CONTINUED	<ul style="list-style-type: none"> Identify and explain the various components and operations of the Vacuum Truck including, but not limited to: <ul style="list-style-type: none"> Technician Control Panel Vacuum Pump Primary Shut-Off Trap Secondary Moisture Trap Oil Catch Muffler Manway (Access Panel) Vacuum Relief Valve Pressure Relief Valve Pressure/Vacuum Gauge Oil Reservoir Pre-filter Oil Separator Silencer Exhaust Interceptor Vacuum Tank (Carbon Steel, Aluminum, and Stainless Steel) Identify the various types of vacuum trucks and their applications, including: <ul style="list-style-type: none"> Dry Vacuum Wet Vacuum Truck Combination (Dry/Wet) Vacuum Truck Hydro Excavator List and demonstrate, in correct order, the pre-operating procedures used in vacuuming, including: <ul style="list-style-type: none"> Planning Checklists Hoses, Pipes, and Fittings Preparation Electrical Equipment Preparation and Safety Grounding Review of MSDS List and demonstrate, in correct order, the general operating procedures used in vacuuming according to the manufacturers' recommendations, including: <ul style="list-style-type: none"> Dry Vacuum Starting the Truck Engine Driving the Truck Field Set-up Position Hose and Safety Tee Test Equipment and Safety Devices Vacuum Loading Procedures Material Disposal (including transporting materials) 	

8.0 HYDRO BLASTER/VACUUM TRUCK TECHNICIAN, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)														
8.06 VACUUM TECHNICIAN TECHNIQUES, CONTINUED	<ul style="list-style-type: none">Adhere to the appropriate safety procedures used in Vacuum Truck operations:<ul style="list-style-type: none">Truck Mechanical RequirementsGross Vehicle Weight Rating (GVWR)Personnel Proximity to TruckLiquid Vacuum Truck SafetyOverhead Obstacles Underground IssuesUneven/Unstable Ground ConditionsPedestriansHigher Center of GravityParkingDumping of Truck Contents															
8.07 VACUUM TECHNICIAN MAINTENANCE	<ul style="list-style-type: none">Inspect and perform routine and scheduled maintenance checks as recommended by the manufacturers’ specifications on the following components of the Vacuum Truck:<table><tr><td>Pre-Operational</td><td>Operational</td></tr><tr><td>Planning</td><td>Proper shut-down procedures</td></tr><tr><td>Company Provided Checklists</td><td>Gather all tools and equipment</td></tr><tr><td>Inspect Vehicles</td><td>Clean all tools and equipment</td></tr><tr><td>Obtain and Inspect Tools and Equipment are in proper working condition</td><td>Clean up project work site</td></tr><tr><td>Obtain and Inspect PPE</td><td>Inspect vehicles prior to return trip</td></tr><tr><td></td><td>Closeout all project paperwork</td></tr></table>Identify the proper use of tools and equipment for repairing vacuum truck equipment.Recognize when the vacuum truck equipment is in need of maintenance and notify the appropriate supervisor.	Pre-Operational	Operational	Planning	Proper shut-down procedures	Company Provided Checklists	Gather all tools and equipment	Inspect Vehicles	Clean all tools and equipment	Obtain and Inspect Tools and Equipment are in proper working condition	Clean up project work site	Obtain and Inspect PPE	Inspect vehicles prior to return trip		Closeout all project paperwork	<ul style="list-style-type: none">Recognize when the vacuum truck equipment is in need of routine maintenance and servicing prior to, during and following operation.Identify and perform the appropriate types (daily, interval, and scheduled) of routine maintenance and servicing of the vacuum truck equipment.Identify the proper use of tools and equipment used for repairing vacuum truck equipment.Recognize when the vacuum truck equipment is in need of advanced maintenance.Perform the appropriate advanced maintenance based on the manufacturer’s recommendations.
Pre-Operational	Operational															
Planning	Proper shut-down procedures															
Company Provided Checklists	Gather all tools and equipment															
Inspect Vehicles	Clean all tools and equipment															
Obtain and Inspect Tools and Equipment are in proper working condition	Clean up project work site															
Obtain and Inspect PPE	Inspect vehicles prior to return trip															
	Closeout all project paperwork															

8.0 HYDRO BLASTER/VACUUM TRUCK TECHNICIAN, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
8.08 C.D.L CLASS B WITH HAZMAT ENDORSEMENT	<ul style="list-style-type: none"> Perform the vehicle inspection process of a commercial vehicle, including: <ul style="list-style-type: none"> Pre-trip (checklists) On the road Post-trip vehicle and equipment inspections (checklists) Post-trip vehicle and equipment inspections (checklists) Demonstrate basic operating skills of a commercial vehicle. Successfully pass the State Department of Motor Vehicles Examination for a C.D.L. Class B with Hazmat Endorsement. Identify and explain the safety procedures; alcohol and drug effects; laws and penalties that are applicable to the commercial driver. Demonstrate at a proficient level with regard to performing pre-trip, on the road, and post-trip vehicle and equipment inspections and sliding fifth-wheels and tandems. Demonstrate the ability to be skillful in safe driving techniques. Demonstrate proficient skills in map reading, trip planning, maintaining a log book, cargo documentation, coupling and uncoupling, and be aware of emergency responsibilities and regulations of transportation agencies. 	<ul style="list-style-type: none"> Explain the vehicle inspection process of a commercial vehicle. Demonstrate basic control skills of a commercial vehicle. Successfully pass the State Department of Motor Vehicles Examination for a C.D.L. Class B with Hazmat Endorsement. Identify and explain the safety procedures; alcohol and drug effects; laws and penalties that are applicable to the commercial driver. Demonstrate at a proficient level with regard to performing pre-trip, on the road, and post-trip vehicle and equipment inspections and sliding fifth-wheels and tandems. Demonstrate the ability to be skillful in safe driving techniques. Demonstrate proficient skills in map reading, trip planning, maintaining a log book, cargo documentation, coupling and uncoupling, and be aware of emergency responsibilities and regulations of transportation agencies.



Hydro Blaster Vacuum Technician Course Description

COURSE	DESCRIPTION
HVT 6000 Health and Safety Awareness	<p>Hour/s: 16</p> <p>In order to work safely, blasters must read and understand safe operating procedures for all of the equipment they use. This course will provide the essential information and hands-on experience that will provide the Hydro Blaster and Vacuum Technician with the knowledge of proper PPE; the ability to recognize unsafe jobsite conditions, and the ability to identify proper medical procedures associated with hydro blasting injuries.</p>
HVT 6100 Intro to the Hydro Blasting Trade	<p>Hour/s: 16</p> <p>The use of high pressure water jets for cleaning and cutting is a rapidly evolving technology. In this course students will define hydro blasting and its terms, describe the application in which blasting is used, and discuss the historical significance of the hydro blasting trade. In addition to learning the blasting concepts of pressure, flow rate, and velocity, students will also discover the four categories of pressure for hydro blasting.</p>
HVT 6101 Hydro Blaster-Vacuum Truck Technician Special Topics	<p>Hour/s: 40</p> <p>This course is used to provide in-class and hands-on training on special topics in the Hydro Blaster/Vacuum Truck Technician Trade. Note: Course content for this course is at the discretion of the instructor.</p>
HVT 6200 Hydro Blasting Equipment	<p>Hour/s: 24</p> <p>In this unit we will discuss the parts and functions of hydro blasting equipment and how to operate the equipment most productively without compromising safety. The topics covered in this unit include equipment parts and their operation, how to select the appropriate equipment, and hints on obtaining maximum hydro blasting productivity without compromising safety.</p>
HVT 6201 Introduction to Hydro Mobile	<p>Hour/s: 4</p> <p>Participants in this course will learn how to setup, use, inspect, and maintain the hydro mobile Mast Climbing platform.</p>



COURSE

DESCRIPTION

HVT 6300 Hydro Blasting Techniques

Hour/s: 24

This unit of study is designed to teach the students the techniques that will achieve the level of clean necessary to merit customer satisfaction. Students will learn the knowledge and skills necessary to perform safe and proper pre-service and setup, demonstrate pre-operating procedures, and the precise order and performance of Hydro blasting equipment operating procedures.

HVT 6400 Hydro Blasting Maintenance

Hour/s: 16

This unit of study is designed to provide students the knowledge and skills necessary to perform and/or ensure the safe and proper maintenance, servicing and repair on the components of high pressure water jet systems. Students will learn to inspect and perform daily maintenance checks on all components of the system, perform routine inspections of all external and internal parts of valves, fittings and gun components, and provide scheduled servicing to the pump and major components of the system.

HVT 6500 Vacuum Technician Techniques

Hour/s: 40

This course is designed to provide students with the knowledge and skills necessary for the most effective and safe methodology in vacuuming with extremely powerful and dangerous equipment in various settings and conditions. Students will learn to use and identify the terminology, PPE, and components of the pressure truck. Students will demonstrate the correct order of proper vacuum operating procedures, including loading and unloading, and the identification of hazardous chemicals and materials

HVT 6600 Vacuum Technician Maintenance

Hour/s: 40

This course is designed to provide students with the knowledge and skills necessary to safely troubleshoot problems that are associated with extremely powerful vacuum systems used in this industry. Additionally, this course will insure that adequate and proper corrections or repairs are made to the equipment in a safe and cost effective manner.

HVT 6700 C.D.L. Class B with HAZMAT

Hour/s: 40

This course is designed to prepare the Student to pass the State's written exam with the Department of Motor Vehicles. It will also provide the Students with the opportunity to take the required third-party driving examination. (Class B - Single vehicles with a GVWR of 26,001 pounds or more and towing any such unit with a GVWR less than 10,001 pounds.)





Painter-Decorator

O* NET-SOCCODE: 47-2141.00

RAPIDSCODE: 0379HY

Also known as Painter-Commercial,
Painter Construction

Course Competencies

The Program level curriculum builds upon the foundation of the core curriculum skills, knowledge, and abilities. At the program level, occupation-specific standardized curriculum is designed by an ad-hoc committee comprised of the FTI Curriculum Department, IUPAT/FTI subject matter experts, employers, manufacturers, and associations.

Apprentices will be assessed on their acquisition of knowledge, skills and abilities in the core curriculum through hands-on and written tests as well as OJL performance measures.

Additionally, the apprentices will integrate their core knowledge, skills and abilities into the pursuit of specific occupational training throughout the term of their apprenticeship. This program specific training is designed to build the technical and professional skills needed by the apprentice to successfully perform his/her occupational profession.

Apprenticeship Program

The Painter-decorators Apprenticeship Program is an educational program co-sponsored by the IUPAT and FTI to meet the ever-changing needs of the industry and the affiliates it serves. The apprenticeship program ensures that apprentices will learn the theoretical knowledge and the practical skills necessary to be successful Painter-decorators.

During the course of study, apprentices will be exposed to labor union history with special emphasis on the IUPAT, health and safety issues, materials, tools, equipment, and the proper techniques of the Painting and Decorating trade.

Apprentices successfully completing this program apply their skills and abilities as Painter-decorators in residential, commercial, institutional, and industrial settings.

Description of Occupation

Painter-decorators apply decorative and protective finishes in residential, commercial, institutional and industrial settings. They prepare a variety of surfaces (wood, masonry, drywall, plaster, concrete, synthetics, stucco and metal) prior to the application of materials such as paint, high performance coatings, waterproofing, fireproofing, varnish, shellac, wall coverings and special decorative finishes. Painter-decorators are employed by construction companies, painting contractors, building maintenance contractors, or are self-employed. They work on projects such as home interiors and exteriors, residential high rises, wall covering work, industrial tanks and plants, bridges, airports, institutions, marine and offshore projects, and other commercial and industrial projects.

Some Painter-decorators may work for years on a single site; others may work for contractors that rarely work on the same site more than once. Trends in the industry are leading manufacturers to continually make their products more environmental friendly. Environmental concerns have encouraged a movement toward 100% solid materials (low or no VOCs). The industry is on the cutting edge of the use of intumescent coatings in industrial settings. High performance emulsion paints and varnishes have vastly improved in their durability and overall performance. They have also become more environmentally and user-friendly. Ceramic insulating paints are fairly new to the trade.

These paints were first introduced in the industrial sector, but are now being used for residential applications as well. The use of these paints for homes is expected to rise because of the increasing awareness of energy efficiency.



Work Environment

Painter-decorators may come in contact with hazardous materials such as isocyanates, free silica, lead, volatile organic compounds and at times, carcinogenic materials. They may work with some physical discomfort when preparing surfaces or applying coatings in awkward positions. Painter-decorators may work indoors and/or outdoors.

Painter-decorators need to be aware of the safety and environmental concerns involved in the use of occupation equipment. For example, high and ultra high water jetting equipment and other types of abrasive blasting equipment are used to strip paint from building, tanks, bridges, ships, and piping. When working on tall buildings, painters erect scaffolding, including “swing stages,” scaffolds suspended by ropes, or cables attached to roof hooks. When painting steeples and other conical structures, they use a Bosun’s chair, a swing-like device.

Painter-decorators must stand for long periods, often working from scaffolding and ladders. Their jobs also require a considerable amount of climbing and bending. These workers must have stamina, because much of the work is done with their arms raised overhead. Painters often work outdoors but seldom in wet, cold, or inclement weather. Some painting jobs can leave a worker covered with paint.

Training/Skill Set

Key attributes for people entering this trade are manual dexterity, excellent color and artistic aptitude. Good physical condition is important because the work often requires considerable standing, kneeling, and repetitive activities such as brushing and rolling.

Painter-decorators must have an eye for detail, the ability to plan work, and knowledge of many types of finishes, their properties and their applications. Painter-decorators must be able to calculate areas and relate such calculations to required material. Good communications and customer service skills are required by Painter-decorators who often interact with home/business owners, contractors, interior designers and architects.

Basic computer skills are gradually becoming a necessary occupational skill for communications, research and design. Due to technological advances in the industry, ongoing training in new materials and their applications is critical to Painter and Decorators. Most Painter-decorators learn through OJL and by working as an apprentice to an experienced journeyworker. This is accomplished through a combination of related instruction as delineated in these Standards.



Program Level Competencies

With reference to each of the respective areas of the Painter-Decorator occupation, apprentices successfully completing this program will be able to:

- ✓ Explore historical aspects of Painting and Decorating and its relevance to current applications.
- ✓ Explore trade options as they pertain to the Painting and Decorating industry.
- ✓ Examine principles of Painting and Decorating.
- ✓ Identify materials and applications of the Painting and Decorating industry.
- ✓ Utilize tools and equipment of the Painting and Decorating industry.
- ✓ Interpret drawings related to the Painting and Decorating trade.
- ✓ Apply trade math calculations.
- ✓ Apply the standards of quality control and quality assurance in the Painting and Decorating industry.

Suggested Program of Study

The IUPAT/FTI Program of Study for the Painter-Decorator OJL and Related Instruction is outlined below. Under this hybrid approach, an apprentice must participate in the indicated minimum hours of OJL for each category of the program. The Program Sponsor is responsible for determining the number of RI hours that an apprentice must participate in based on the FTI guidance, local needs, and the suggested minimum of 144 hours per year (29 CFR 29.5(b)(4)). See the table below:

STD CAT #	CATEGORY NAME	OJL HRS	RI HRS
9.01	Health and Safety for the Painter-Decorator	300-500	40
9.02	Introduction to Painter-Decorator Trade	800-1000	60
9.03	Surface Preparation and Cleaning	800-1000	40
9.04	Non-Spray Application of Coatings	800-1000	60
9.05	Identifying Paints Coatings and Materials	400-600	24
9.06	Spray Painting	800-1000	48
9.07	Wallcoverings	160-480	16
9.08	Abrasive Blasting	160-480	16
9.09	Wood Finishes	160-480	16
9.10	Decorative Finishes	160-480	16
9.11	Evaluation		
		4572-7052	432

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
	1.0-3.0		Core Curriculum	32	96
9.01	PNT	7000-7099	Health and Safety for the Painter-Decorator	300-500	40
			Course Code and Course Name	Hours	Months Valid
			PNT 7000 Health and Safety Awareness I	8	N/A
			PNT 7001 Health and Safety Awareness II	16	N/A
			PNT 7002 Health and Safety Awareness III	16	N/A
			PNT 7003 Health and Safety Awareness IV	16	N/A
			PNT 7004-7099 Not Yet Assigned		
9.02	PNT	7100-7199	Introduction to Painter-Decorator Trade	800-1000	60
			Course Code and Course Name	Hours	Months Valid
			PNT 7100 Introduction to the Painter-Decorator Trade	16	N/A
			PNT 7101 Tools and Equipment of the Trade	20	N/A
			PNT 7102 Protecting Adjacent Surfaces	12	N/A
			PNT 7103 Covering and Masking	12	N/A
			PNT 7104 Structure Exteriors	10	N/A
			PNT 7105 Painter and Decorator Special Topics	40	N/A
			PNT 7106 Review Assessment and Merit Increase	40	N/A
			PNT 7107-7199 Not Yet Assigned		
9.03	PNT	7200-7299	Surface Preparation and Cleaning	800-1000	40
			Course Code and Course Name	Hours	Months Valid
			PNT 7200 Surface Preparation & Cleaning I	12	N/A
			PNT 7201 Paint Failures and Remedies	8	N/A
			PNT 7202 Pre-Job Analysis for Wood Structures	8	N/A
			PNT 7203 Surface Preparation & Cleaning II	8	N/A
			PNT 7204 Caulking	8	N/A
			PNT 7205C Sponge-Jet (CERTIFICATION)	8	Permanent
			PNT 7206-7299 Not Yet Assigned		
9.04	PNT	7300-7399	Non-Spray Application of Coatings	800-1000	60
			Course Code and Course Name	Hours	Months Valid
			PNT 7300 Brush and Roller Applications I	20	N/A
			PNT 7301 Brush and Roller Applications II	10	N/A
			PNT 7302 Brush and Roller Applications III	30	N/A
			PNT 7303 Brush and Roller Applications IV	10	N/A
			PNT 7304-7399 Not Yet Assigned		

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
9.05	PNT	7400-7499	Identifying Paints Coatings and Materials	400-600	24
			Course Code and Course Name	Hours	Months Valid
			PNT 7400 Identifying Paints Coatings and Materials	16	N/A
			PNT 7401 Color and Light	8	N/A
			PNT 7402C BEHR PRO: New Products (CERTIFICATION)	?	Permanent
			PNT 7403C SHERWIN WILLIAMS: New Products (CERTIFICATION)	4	Permanent
			PNT 7404C WOOSTER Brush (CERTIFICATION)	4	Permanent
			PNT 7405C ZINSSER Products RUST-OLEUM (CERTIFICATION)	4	Permanent
			PNT 7406--Not Yet Assigned	?	?
			PNT 7407C DAICH Specialty Coatings (CERTIFICATION)	?	Permanent
			PNT 7408C DAICH Specialty Wall and Floor Coatings (CERTIFICATION)	?	Permanent
			PNT 7409C USG Special Coatings (CERTIFICATION)	?	Permanent
			PNT 7410C NO-COAT (CERTIFICATION)	8	Permanent
			PNT 7411-7499 Not Yet Assigned		
9.06	PNT	7500-7599	Spray Painting	800-1000	48
			Course Code and Course Name	Hours	Months Valid
			PNT 7500 Introduction to Spray Painting	8	N/A
			PNT 7501 Airless Spray Systems	8	N/A
			PNT 7502 Conventional Air-Spray Systems	8	N/A
			PNT 7503 Electrostatic Spray Systems	8	N/A
			PNT 7504 HVLP Spray Systems	8	N/A
			PNT 7505 Metalizing Systems	8	N/A
			PNT 7506 Pavement Markers and Stripers	8	N/A
			PNT 7507 Airless Spray Application Awareness	4	N/A
			PNT 7508C Scuff-Master (CERTIFICATION)	8	24
			PNT 7509C Zolatone (CERTIFICATION)	8	24
			PNT 7510 Introduction to VR SimSpray	4	N/A
			PNT 7511C Architectural Coatings (CERTIFICATION)	32	72
			PNT 7512-7599 Not Yet Assigned		

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
9.07	PNT	7600-7699	Wallcoverings	160-480	16
			Course Code and Course Name	Hours	Months Valid
			PNT 7600 Introduction to Wallcoverings	2	N/A
			PNT 7601 Preparation of Materials and Surfaces	6	N/A
			PNT 7602 Wallcovering Applications	8	N/A
			PNT 7603 Wallcovering Applications II	8	N/A
			PNT 7604 Wallcovering Mini-Labs	40	N/A
			PNT 7605 P3TEC Preferred Technician	16	N/A
			PNT 7606C Certified Vinyl Wall Covering Installer Program (CERTIFICATION)	8	36
			PNT 7607-7699 Not Yet Assigned		
9.08	PNT	7700-7799	Abrasive Blasting	160-480	16
			Course Code and Course Name	Hours	Months Valid
			PNT 7700 Abrasive and Water Blasting	8	N/A
			PNT 7701 Wet Abrasive Blasting	8	N/A
			PNT 7702C 3M Products: Tapes-Abrasives-Adhesives-Safety (CERTIFICATION)	4	Permanent
			PNT 7703-7799 Not Yet Assigned		
9.09	PNT	7800-7899	Wood Finishes	160-480	16
			Course Code and Course Name	Hours	Months Valid
			PNT 7800 Wood and Wood Products	2	N/A
			PNT 7801 Wood Preparation	4	N/A
			PNT 7802 Wood Finishes	8	N/A
			PNT 7803 Post Application of Wood Finishes	2	N/A
			PNT 7804-7899 Not Yet Assigned		
9.10	PNT	7900-7949	Decorative Finishes	160-480	16
			Course Code and Course Name	Hours	Months Valid
			PNT 7900 Introduction to Special Decorative Finishes	2	N/A
			PNT 7901 Decorative Finishes I - Faux Effects	8	N/A
			PNT 7902 Decorative Finishes II - Faux Effects	6	N/A
			PNT 7903-7949 Not Yet Assigned		
9.11	PNT	7950-7999	Evaluation		
			Course Code and Course Name	Hours	Months Valid
			PNT 7950A Painter Evaluation (DC 51)	2	N/A
			PNT 7951 Painter Progression Test Preparation	8	N/A

PNT Course Competencies

This table identifies the course competencies that the Painter-Decorator apprentice will successfully complete.

9.0 PAINTER-DECORATOR

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
9.01 HEALTH AND SAFETY AWARENESS	<ul style="list-style-type: none"> Don (put on), doff (remove), inspect, and maintain the proper PPE that should be worn including, but not limited to: <ul style="list-style-type: none"> Head Eyes Hands Feet Face Ears Body Respiratory Perform a job analysis for safe working conditions: <ul style="list-style-type: none"> Attend pre-job safety meetings Observe Vessel Entry/ Confined Space regulations. Adhere to site specific safety rules and federal regulations Read and interpret MSDS Establish and maintain a safe working perimeter Safely demonstrate the proper use and maintenance of hydro blasting/vacuuming equipment. Maintain clean work areas (housekeeping). Demonstrate how to perform positive and negative fit checks on selected respirators. Use selected monitoring equipment to measure the atmosphere in a confined space. Recognize the symptoms associated with excess exposure to heat and cold. Store, handle, and transport tools, equipment and materials properly. Identify the locations of First Aid and Fire Equipment. Correctly use fall arresting and other fall protection equipment. Demonstrate safe work practices for erecting and dismantling scaffolds, including: pre-planning, inspecting scaffold components, load capacity, platform construction, access requirements, and fall protection. Demonstrate a pre-inspection and the safe operation of an aerial lift. 	<ul style="list-style-type: none"> Recognize the important areas of OSHA in general terms. Identify the Safety Regulations as they apply to safe work practices in the trade with emphasis on: <ul style="list-style-type: none"> Identification of safety hazards (unsafe conditions) Proper handling of materials, including hazardous Maintenance and safe operation of tools PPE Describe the precautions that must be followed when using flammable liquids and adhesives. Explain the purpose of Hazard Communication programs. Explain what a Material Safety Data Sheet (MSDS) is, its purpose and limitation. Describe the role of employer, supplier, and worker in the education of workers. Outline emergency procedures and how to obtain assistance for injured workers. Compare and contrast the characteristics of a confined space with those of a permit-required confined space. Explain confined space characteristics and hazards. Identify 29 CFR 1910.146 as OSHA's General Industry Confined Spaces Rule. Describe the proper technique (ergonomics) for lifting and transporting materials and equipment. Identify safety requirements for erecting and dismantling scaffolds, including: pre-planning, inspecting scaffold components, calculating load capacity, platform construction, access requirements, and fall protection. Identify the different types of aerial lifts and their related safety rules and precautions. Describe potential fall hazards in the workplace.

9.0 PAINTER-DECORATOR, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
9.01 HEALTH AND SAFETY AWARENESS, CONTINUED	<ul style="list-style-type: none"> Describe and demonstrate the proper use of various types of personal fall protection equipment. Describe and demonstrate the steps of ladder safety, including: selection, inspection, set-up, safe techniques and proper maintenance and storage. 	<ul style="list-style-type: none"> Describe the different types of ladders and the conditions under which they are used. Describe the techniques and equipment used for environmental humidity/temperature control.
9.02 INTRODUCTION TO THE PAINTING AND DECORATING TRADE	<ul style="list-style-type: none"> Demonstrate the characteristics of a professional Painter-Decorator, including: <ul style="list-style-type: none"> Exhibit suitable appearance and personal hygiene. Exhibit proper attitude and behavior on the job site, including private residences and other occupied buildings. Deal with difficult customers in a professional and courteous manner. Interpret written and verbal instructions. Recognize the importance of cooperation and interaction with related trades on a job site. Demonstrate the knowledge and use of color theory and the color wheel by selecting and applying complimentary, contrasting, and harmonious colors. Recognize the importance of cooperation and interaction with related trades on a job site. <ul style="list-style-type: none"> Setup and safely operate a compressor. Setup and safely use a power washer on multiple substrates. Demonstrate the proper use of a Pasting Table. Demonstrate how to clean and store brushes and rollers. Identify and select the proper brush and roller given a particular application. Demonstrate the selection and use of masking methods, tools and materials. Demonstrate proper layout drop cloths, & plastic. Demonstrate the proper use of spray shielding. Demonstrate knowledge of wrapping methods and materials. Demonstrate the proper clean up, removal and disposal of protective materials used in masking operations. Recognize and describe the application of selected masking materials. 	<ul style="list-style-type: none"> Identify and explain the basic terminology used in the Painting and Decorating trade. Describe the working conditions of the Painting and Decorating trade. Identify the career options and advancement opportunities in the Painting and Decorating trade. Describe custody, care, and maintenance of tools and equipment. Identify basic tools and equipment used for surface preparation and Painting and Decorating application. Identify the reasons for applying coatings. Identify the basic hand tools and equipment used in the Painting and Decorating trade. Identify power tools used in Painting and Decorating trade. Identify the basic hand tools and equipment used in the Drywall Trade. Identify the basic hand tools and equipment used in the Wall covering trade. Identify the equipment required for proper lighting of a worksite. Identify the proper methods, procedures and equipment used for proper ventilation. Identify different types and use of work platforms. Identify the components of brushes and rollers. Describe the differences between natural bristles and synthetic bristles.

9.0 PAINTER-DECORATOR, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
9.02 INTRODUCTION TO THE PAINTING AND DECORATING TRADE, CONTINUED	<ul style="list-style-type: none"> • Demonstrate/describe selected methods and materials for interior/exterior coverings. • Demonstrate how to properly mask a window with tape and paper/plastic. • Demonstrate how to spray railings. • Demonstrate how to cover from overspray. • Demonstrate how to remove masking tape after finish coats have been applied. 	<ul style="list-style-type: none"> • Recognize an example of a pre-service and operational checklist for high pressure water cleaning. • Recognize the various types of paint brushes and select the proper paint brush for the application. <ul style="list-style-type: none"> ○ Wall brushes ○ Varnish brushes ○ Sash and trim brushes ○ Stain brushes ○ Special purpose brushes ○ Decorative brushes ○ Recognize the different kinds of rollers and roller covers and select the proper roller and cover for the application, including: <ul style="list-style-type: none"> ○ Dip rollers ✓ Self-feeding rollers ✓ Special purpose rollers. • Identify and describe masking tools and materials. • Describe the materials required for protecting surfaces, including: <ul style="list-style-type: none"> ○ Tape dispensers ○ Types of tape ○ Types of masking material › Paint shields › Covering materials • Describe the methods of applying interior and exterior masking and coverings to various surfaces. • Understand the importance of proper cleanup. • Describe how to protect shrubbery during the painting process. • Describe how windscreens work. • Describe the importance of using drop cloths when spraying near roofs. • Describe the dangers of masking exterior light fixtures.
9.03 SURFACE PREPARATION AND CLEANING	<ul style="list-style-type: none"> • Demonstrate various surface preparation methods. • Demonstrate various substrate repair methods. • Demonstrate various inspection test devices. • Sand, wash, caulk, spackle and spot prime previously painted substrates in preparation for repainting. • Sand, prime, putty and caulk wood surfaces in preparation for finish coat. • Prepare new and old porous masonry surfaces for coatings. • Prepare metal substrates for coatings by utilizing selected surface prep methods. • Prepare substrate for sealant. 	<ul style="list-style-type: none"> • Identify selected substrates and surfaces and suitable methods of surface prep. • Recognize and identify industry standard surface prep methods and specifications. • Identify the ramifications of improper surface prep. • Recognize and describe the various categories and uses of low-pressure water washing equipment. • Recognize the different types of joints and substrates. • Explain the implications of using chemical strippers, and solvents as related to VOC's and health hazards.

9.0 PAINTER-DECORATOR, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
9.03 SURFACE PREPARATION AND CLEANING, CONTINUED	<ul style="list-style-type: none"> Estimate curing and drying times based on various ambient conditions. Demonstrate proper start-up, operation, cleaning techniques, shutdown, and safety guidelines for typical low-pressure washers using selected accessories. Demonstrate proper surface prep operations utilizing chemical strippers and deglossers on both new and previously painted surfaces. Patch and finish damaged drywall. Sand, wash, caulk, spackle and spot prime new substrates in preparation for painting. Demonstrate basic knowledge of various surface prep inspection tools and equipment. Demonstrate ability to repair common paint failures using various methods of surface preparation prior to repainting operation. Recognize and describe the uses of various preparation agents. <ul style="list-style-type: none"> Demonstrate the proper use of Drywall Finishing hand and automatic tools. Demonstrate embedding of drywall joints, angles, corner bead and nail spotting. Properly prepare each type of compound in use on a job. Demonstrate the application of the second drywall coat. Demonstrate the application of the finish coat and touch up, including the use of sanding tools. Apply textures by hand and automated methods to perform the following tasks: <ul style="list-style-type: none"> Joint taping and finishing › Corner finishing › Sanding Fastener spotting Demonstrate the ability to patch and finish damaged drywall. Distinguish and state a level of finish by observation. 	<ul style="list-style-type: none"> Identify the classifications and uses of chemicals as related to surface prep operations. Describe substrate preparation tools and materials. Identify materials used in drywall finishing and state the purpose and use of each of the following materials: <ul style="list-style-type: none"> Compounds › Trim materials Joint reinforcing tapes › Textures and Coatings Explain the differences in the six levels of finishing established by industry standards. Identify the hand tools used in Drywall Finishing. Identify taping and bedding materials. Describe some of the problems and causes that occur in drywall finishes.
9.04 NON-SPRAY APPLICATION OF COATINGS	<ul style="list-style-type: none"> Apply coating (Paint, Lining, Stain, Wood Finishes, Sealers etc.) to selected surfaces using the following methods: <ul style="list-style-type: none"> Brush › Trowel or other hand tool Roller 	<ul style="list-style-type: none"> Explain the various methods and best practices in the application of stain, clear coat, and wood finish application on wood substrates. Identify characteristics of concrete coating application.

9.0 PAINTER-DECORATOR, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
9.04 NON-SPRAY APPLICATION OF COATINGS, CONTINUED	<ul style="list-style-type: none"> • Properly clean and store hand tools and equipment, using correct solvents. • Properly dispose of waste; paint, water, solvents, etc. • Demonstrate the ability to mix single and multi-component paint, coatings, and linings. • Demonstrate the techniques for proper application of coating on various substrates. • Demonstrate the proper selection and use of hand tools required for a coating project. • Demonstrate the procedures for painting each of the following: double hung window, casement window, gutters and downspouts. • Demonstrate the procedures for painting exterior doors. • Demonstrate the procedures for painting fixed and movable shutters. 	<ul style="list-style-type: none"> • Explain the effects of using various coatings and coating methods as related to VOC's, environmental and health concerns. • Understand the differences and unique characteristics of various substrates and their unique coating requirements, i.e., open and closed grain wood, concrete, metallic substrates, drywall, etc. • Identify common brushes used to paint window trim. • Describe various methods of painting gutters and downspouts. • Describe how to paint roll up garage doors. • Describe the procedures for painting exterior doors. • Describe the advantages and disadvantages of various clear finishes for exterior doors.
9.05 IDENTIFYING PAINTS, COATINGS AND MATERIALS	<ul style="list-style-type: none"> • Properly select a product based on service area and use. • Demonstrate the procedure for creating a custom tint. • Utilize various waterproofing coating systems on both horizontal and vertical surfaces. • Demonstrate the general methods used for the cleanup and disposal of water-based and oil-based paints. • Demonstrate the proper selection of primers, paints and stains for various residential or commercial applications. 	<ul style="list-style-type: none"> • Identify coatings and solvents by type and compatibility (Latex/Water, Alkyd/Mineral Spirits, etc.). • Identify composition of coating products and the various chemicals contained in a volume of coating. • Understand the components of a Product Data Sheet and the Material Safety Data Sheet for a product. • Identify common paint failures, causes and their correction. • Understand Green technology as it relates to paint and coating technology. • Identify ways that color and/or light can influence a person's mood. • Be able to explain how Theoretical Spread rate relates to percentage of solids by Volume. • Explain the use of sealants, fillers, coatings, weather-stripping and other material as a component of weatherization procedures. • Explain the functions of pigments, resins, solvents, and additives. • Describe the basic differences between water-based and oil-based paints and coatings. • Describe the properties and functions of paints or coatings. • Identify the recommended method of surface preparation for different types of coatings.

9.0 PAINTER-DECORATOR, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
9.05 IDENTIFYING PAINTS, COATINGS AND MATERIALS, CONTINUED		<ul style="list-style-type: none"> Describe the application and interaction of various paint materials on selected residential/commercial surfaces. Identify the equipment used to prepare, apply and maintain painted surfaces in a residential or commercial setting. Describe the importance of primers when painting the exterior of commercial or residential buildings. Identify commonly used exterior coatings, stains, and primer stain blockers.
9.06 SPRAY PAINTING	<ul style="list-style-type: none"> Demonstrate the ability to safely apply paints and coatings to various substrates with conventional and HVLP spray systems. Demonstrate the ability to properly clean conventional and HVLP spray systems. Demonstrate the ability to properly clean airless and air assisted spray systems. Demonstrate proper utilization of inspection tools, and equipment prior to, during, and after spray operations. Properly dispose of waste; paint, water, solvents etc. within acceptable environmental, regulatory and job specific guidelines. Display proper spray application technique and adjustment of equipment to produce a quality finish with minimal waste and overspray. Demonstrate ability to properly maintain spray equipment. Demonstrate how to properly mix paint in preparation for spray painting. Demonstrate how to use each type of spray equipment to properly apply paint to selected surfaces. Perform cleaning and maintenance on spray equipment per the manufacturer's instructions. Demonstrate how to measure the thickness of wet and dry paint films. Demonstrate how to measure the viscosity of paints and coatings. Demonstrate accurate measurements and angle calculation when striping a parking lot. 	<ul style="list-style-type: none"> Identify conventional and HVLP spray equipment components. Identify airless and air assisted spray equipment components. Recognize advantages and disadvantages of various spray equipment and accessories given various substrates and materials. Understand the basics of specialty spray systems including electrostatic, plural component, hopper, and thermal spray. Explain differences in interior and exterior spray application and the challenges of each. Recognize and describe spray systems and components, including: <ul style="list-style-type: none"> Conventional spray ▸ HVLP spray systems Airless and air-assisted Explain the responsibilities of a striper in parking lot layouts, including design factors such as traffic flow, number of users, exits/entry, and vehicle size. Identify striping tools, materials and application methods and practices. Describe striping equipment and substrate preparation.

9.0 PAINTER-DECORATOR, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
9.06 SPRAY PAINTING, CONTINUED	<ul style="list-style-type: none"> Demonstrate striping application methods using the proper tools and practices. Demonstrate the preparation of pavement for receiving striping. Demonstrate the use of conventional and airless spray systems during striping. 	
9.07 WOOD FINISHES	<ul style="list-style-type: none"> Recognize hardwoods and softwoods. Recognize open-grain and closed-grain woods. Use a moisture meter to measure the moisture content of selected wood surfaces. Demonstrate proper hand and power tool sanding techniques and cleaning of selected wood substrates. Use bleach to lighten selected wood substrates. Apply fillers to selected open-grained substrates. Apply a sealer to selected wood substrates. Apply stains to selected interior/exterior substrates. Apply clear finishes to selected wood substrates. <ul style="list-style-type: none"> Varnish Shellac Lacquer Polyurethane 	<ul style="list-style-type: none"> Explain why wood should be finished. Describe the characteristics of wood. Recognize open-grain and closed-grain wood surfaces. Name and describe the use of basic wood finishing materials. Demonstrate and/or describe the steps that are involved in the wood finishing process. <ul style="list-style-type: none"> Sanding and cleaning Bleaching Staining Filling Sealing Applying finish coat(s)
9.08 WALL COVERINGS	<ul style="list-style-type: none"> Estimate the amount of wall covering needed using various estimating techniques. Select the proper adhesive for a particular wall covering. Properly mix a powdered adhesive. Prepare a surface for wall covering. Install selected wall coverings and borders with emphasis on working around windows, doors, light fixtures, and other obstacles. Demonstrate the ability to install wall coverings in difficult places such as stairs, slant walls, dormers, and archways. Recognize and correct common wall covering failures. Correctly apply a variety of wall coverings using the proper technique when confronted with doors, windows, dormers, archways, and other architectural elements. 	<ul style="list-style-type: none"> Identify the basic types of wall coverings, their characteristics, and uses. Identify the types and categories of commercial wall coverings. Understand the terms associated with wall covering. Identify the tools, equipment, adhesives, and other materials commonly used to install wall coverings.

9.0 PAINTER-DECORATOR, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
9.09 ABRASIVE WET BLASTING	<ul style="list-style-type: none"> Demonstrate striping application methods using the proper tools and practices. Demonstrate the preparation of pavement for receiving striping. Demonstrate the use of conventional and airless spray systems during striping. 	<ul style="list-style-type: none"> Describe the basic uses of conventional abrasive blast systems. Recognize and describe the types and sizes of basic blast machines and the functions of their components. Describe the requirements of air and blast hose and hose couplings. Describe the types and sizes of blast nozzles and holders. Describe the basic safety and operating guidelines for conventional blast systems.
9.10 DECORATIVE FINISHES	<ul style="list-style-type: none"> Demonstrate striping application methods using the proper tools and practices. Demonstrate the preparation of pavement for receiving striping. Demonstrate the use of conventional and airless spray systems during striping. 	<ul style="list-style-type: none"> Explain the purpose for using each type of decorative finish. Recognize surfaces with decorative finishes applied by glazing. Demonstrate how to make common glaze formulas (recipes). Recognize surfaces with decorative finishes applied by antiquing. Recognize surfaces with decorative finishes applied by gilding. Recognize surfaces with decorative finishes applied by stippling and mottling, and describe the difference between the two methods. Recognize surfaces with decorative finishes applied by marbling and graining, and describe the difference between the two methods. Demonstrate and/or describe how to prepare surfaces for application of the different types of decorative finishes. Use the proper tools needed to achieve special effects when applying different types of decorative finishes. Identify the decorative colors commonly used in marbling and graining.



Painter-Decorator Course Description

COURSE	DESCRIPTION
PNT 7000 Health and Safety Awareness for the Painter-Decorator	<p>Hour/s: 8</p> <p>The varying nature of painting and decorating job sites can make recognizing hazards difficult due to changes in situation and materials. It is essential that workers be informed about hazards and trained to recognize harm. Participating in this course will expose the painter to discussions on the possible hazards of work sites, harm from exposure to chemicals, fire and explosion hazards, as well as physical and safety hazards. The painter will learn basic control measures, types of personal protective equipment and the role of OSHA in the painter's work.</p>
PNT 7001 Health and Safety Awareness II for the Painter-Decorator	<p>Hour/s: 16</p> <p>The varying nature of painting and decorating job sites can make recognizing hazards difficult due to changes in situation and materials. It is essential that workers be informed about hazards and trained to recognize harm. Participating in this course will expose the painter to discussions on the possible hazards of work sites, harm from exposure to chemicals, fire and explosion hazards, as well as physical and safety hazards. The painter will learn basic control measures, types of personal protective equipment and the role of OSHA in the painter's work.</p>
PNT 7002 Health and Safety Awareness III for the Painter-Decorator	<p>Hour/s: 16</p> <p>The varying nature of painting and decorating job sites can make recognizing hazards difficult due to changes in situation and materials. It is essential that workers be informed about hazards and trained to recognize harm. Participating in this course will expose the painter to discussions on the possible hazards of work sites, harm from exposure to chemicals, fire and explosion hazards, as well as physical and safety hazards. The painter will learn basic control measures, types of personal protective equipment and the role of OSHA in the painter's work.</p>
PNT 7003 Health and Safety Awareness IV for the Painter-Decorator	<p>Hour/s: 16</p> <p>The varying nature of painting and decorating job sites can make recognizing hazards difficult due to changes in situation and materials. It is essential that workers be informed about hazards and trained to recognize harm. Participating in this course will expose the painter to discussions on the possible hazards of work sites, harm from exposure to chemicals, fire and explosion hazards, as well as physical and safety hazards. The painter will learn basic control measures, types of personal protective equipment and the role of OSHA in the painter's work.</p>



COURSE**DESCRIPTION****PNT 7100 Introduction to the Painting and Decorating Trade**

Hour/s: 16

This course will provide an overview of the painting trade. Students will discuss what painting is and how it was made, mixed and used in history as well as the advancements in the trade as we see it today. Painting is done for two primary purposes: protection and decoration. It is also important for health and sanitation and safety. Students will learn the scope of paint and painting, the preparation of substrates for painting and the application of Wallcovering to finish drywall board. As a painter, there are a variety of materials and tools, and an infinite number of colors that can be applied on a great variety of substrates and structures. Very few careers offer the opportunities that can be found in the painting trade. The Student in this course will discuss the possibilities for long-term careers and advancement in the painting industry.

PNT 7101 Tools and Equipment of the Trade

Hour/s: 20

The oldest and still the most used tool in the painting industry today is the paint brush. In addition to the many kinds of paint brushes available, many other types of applicators, such as rollers have been developed are also in wide use today. At the completion of this course, the apprentice painter will have the basic skills and knowledge to discuss and demonstrate the uses for different types of brushes, roller frames and roller covers, basic types of Wallcovering tools, types of painting equipment and the uses of basic types of drywall finishing tools.

PNT 7102 Protecting Adjacent Surfaces

Hour/s: 12

This course will introduce the apprentice painter-decorator the techniques necessary to properly protect adjacent surfaces during the application of specific coatings.

PNT 7103 Covering and Masking

Hour/s: 12

This course will introduce the apprentice painter-decorator to the proper masking and covering techniques to properly prepare and protect adjacent surfaces when applying coatings.

PNT 7104 Structure Exteriors

Hour/s: 10

This course is designed to teach the application of coating to various structures for exterior use.

COURSE	DESCRIPTION
PNT 7105 Painter and Decorator Special Topics	<p>Hour/s: 40</p> <p>This course is used to provide in-class and hands-on training on special topics in the Painter and Decorator Trade.</p> <p>Note: Course content for this course is at the discretion of the instructor.</p>
PNT 7106 Review Assessment and Merit Increase	<p>This course was developed to review assessment and merit increases for District Council 78.</p>
PNT 7200 Surface Preparation and Cleaning	<p>Hour/s: 12</p> <p>All surfaces must be properly prepared to receive protective coating since the performance of the new coating is directly related to the condition of the surface to which it will be applied. Quality coatings, applied with utmost skill, will fail prematurely if applied over poorly prepared surfaces. In this course, the apprentice painter will learn to recognize and describe proper preparation for painting new or previously painted interior and exterior wood substrates. They will also become familiar with the characteristics and special treatments for various types of wood and surface conditions.</p>
PNT 7201 Paint Failures and Remedies	<p>Hour/s: 8</p> <p>Paint on a surface provides protection against the deteriorating effects of the various elements. It prevents interior and exterior structural damages which would normally cost the average property owner millions of dollars in repairs each year. Upon completion of this course, Students will be able to identify and describe the characteristics of normal and abnormal surface deterioration. He/she will also learn to identify specific factors that cause paint failures and be able to describe remedies for abnormal surface deterioration.</p>
PNT 7202 Pre-Job Analysis for Wood Structures	<p>Hour/s: 8</p> <p>This comprehensive course contains five instructional units that include 20 topics of study. This course will present technical information that will help to develop the Students' wood finishing skills. Some of the topics include: technical information on wood finishing, commonly used equipment and materials, basic procedures for performing wood finishing, and the terms used in wood finishing. Each instructional unit contains specific learning objectives for the topics contained in the lesson.</p>

COURSE

DESCRIPTION

PNT 7203 Surface Preparation and Cleaning II

Hour/s: 8

All surfaces must be properly prepared to receive protective coating since the performance of the new coating is directly related to the condition of the surface to which it will be applied. Quality coatings, applied with utmost skill, will fail prematurely if applied over poorly prepared surfaces. In this course, the apprentice painter will learn to recognize and describe proper preparation for painting new or previously painted interior and exterior wood substrates. They will also become familiar with the characteristics and special treatments for various types of wood and surface conditions.

PNT 7204 Caulking

Hour/s: 8

This course will introduce students to the purposes of caulking as it relates to the activity of closing up joints and gaps in buildings. Students will also become familiar with the function of caulking in providing thermal insulation, controlling water penetration and reducing noise mitigation.

PNT 7205C Sponge-Jet (CERTIFICATION)

Hour/s: 8

Sponge-Jet is a New Hampshire based global supplier to the Industrial and Commercial Surface Preparation and Cleaning Industry for Sponge (Composite) Abrasives and associated products. This innovative technology improves plant productivity, rotating equipment reliability, coating longevity, and worker safety, all while benefitting the environment. The core technology involves embedding abrasives into small urethane sponge particles so that during abrasive blasting virtually all of the dust and ricocheting abrasive is contained. This allows near perfect surface preparation (thus extending all coatings life) while eliminating the abrasive dust and particles that frequently lead to rotating equipment damage and break down (reliability). Additionally, the reduced emissions of abrasive dust protect both the workers directly involved with the process and others throughout the plant, or area, due to reduced exposure to HAPS (Hazardous Airborne Particles). Sponge-Jet benefits combine to offer many unique systematic improvements to ordinary surface preparation methods. This course will familiarize the individual with the proper operation and maintenance of the equipment, proper sponge blasting technique, product selection and settings to attain steel surface cleanliness from a Brush-off blast to White Metal, and profiles from 0 to 4.0+; for concrete substrates for ICRI CSP 2-7 (Certification Period: Permanent).



COURSE

DESCRIPTION

PNT 7300 Brush and Roller Applications

Hour/s: 20

This course will progress over the apprentice's term to introduce and advance the competency of the apprentice painter-decorator in the appropriate techniques to apply coatings using a brush and roller (7300 Part 1; 7301 Part 2; 7302; Part 3 & 7303 Part IV).

PNT 7301 Brush and Roller Applications II

Hour/s: 10

This course will progress over the apprentice's term to introduce and advance the competency of the apprentice painter-decorator in the appropriate techniques to apply coatings using a brush and roller (7300 Part 1; 7301 Part 2; 7302 Part 3 & 7303 Part IV).

PNT 7302 Brush and Roller Applications III

Hour/s: 30

This course will progress over the apprentice's term to introduce and advance the competency of the apprentice painter-decorator in the appropriate techniques to apply coatings using a brush and roller (7300 Part 1; 7301 Part 2; 7302; Part 3 & 7303 Part IV).

PNT 7303 Brush and Roller Applications IV

Hour/s: 10

This course will progress over the apprentice's term to introduce and advance the competency of the apprentice painter-decorator in the appropriate techniques to apply coatings using a brush and roller (7300 -Part 1; 7301 -Part 2; 7302 -Part 3).

PNT 7400 Identifying Paints Coatings and Materials

Hour/s: 16

Advances in paint technology have resulted in the development of many coatings formulated to meet specific requirements and conditions. Surface preparation, the equipment used; method of application, the type, quality and quantity of coatings used and the conditions under which it is applied, contribute to the effectiveness of the completed job. In this course, the apprentice painter will learn many aspects of painting to include: the different kinds of paints, the composition and properties of basic materials and their appearances, modern paint formulation, other basic coatings and finishes as well as accessory materials that can be used and specialties.



COURSE

DESCRIPTION

PNT 7401 Color and Light

Hour/s: 8

All objects that are viewed in the course of a day, with the exception of those objects that are black, have a physical characteristic called "color." Since black absorbs all light and reflects none, it is said to have no color. In this course Students will learn to demonstrate and describe the use of a color wheel and how light is broken down into different colors or hues. Students describe and demonstrate how to develop shades, tints and tones and show the difference between gloss and reflectance as they are considered when using color in decorating for home, business and industry.

PNT 7402C BEHR PRO: New Products (CERTIFICATION)

Hour/s: ?

Behr's Professional Sales and Training team will present a course on: Products, Professional Services, and other architectural coatings. The class will include hands demonstrations of the products discussed. We will also compare application methods and alignment of the Behr product line with other popular pro brands. Finally, specialty coatings will be introduced and discussed (Certification Period: Permanent).

PNT 7403C SHERWIN WILLIAMS: New Products (CERTIFICATION)

Hour/s: 4

This class will provide an update on the new products Sherwin Williams manufactures, as well as their high performance coatings for industry, while demonstrating application technique and application processes. What a great way to learn more about Sherwin Williams' products! This is a 4-hour course (Certification Period: Permanent).

PNT 7404C WOOSTER Brush (CERTIFICATION)

Hour/s: 4

This two- in-one 4-hour course will explore the world of primers and specialty coatings by Zinsser and their specific applications, while you gain the insight to a variety of applicators; such as, latex brushes and roller sleeves for all the "newest" latex products and state-of-the-art tools in the industry (Certification Period: Permanent).

PNT 7405C ZINSSER Products RUST-OLEUM (CERTIFICATION)

Hour/s: 4

This 4-hour course will cover the proper use of primers and the origins of shellac products. You will learn about floor coatings and other specialty paints. There will be a hands on portion that will allow everyone the chance to apply products. Bring your whites, because this is a hands-on class (Certification Period: Permanent).

COURSE

DESCRIPTION

**PNT 7406—Not Yet
Assigned**

Hour/s: XXX

**PNT 7407C DAICH
Specialty Coatings
(CERTIFICATION)**

Hour/s:

This course is designed to apply specialty wall and floor coatings from the DAICH coatings manufacturers (Certification Period: Permanent).

**PNT 7408C DAICH
Specialty Wall and
Floor Coatings
(CERTIFICATION)**

Hour/s:

This course is focused on product capabilities, and application techniques, using high performance interior and exterior surface coatings manufactured by DAICH Coatings Corporation. By installing DAICH products, step by step on sample panels, the student will learn to install the attractive and highly profitable line of floor and wall coatings made of "Real Stone" (Certification Period: Permanent).

**PNT 7409C USG Special
Coatings
(CERTIFICATION)**

Hour/s:

This presentation by a United States Gypsum Co. representative will review all the latest products and hands on application techniques including spray coating, faux finishes, and corner bead installation (Certification Period: Permanent).

**PNT 7410C NO-COAT
(CERTIFICATION)**

Hour/s: 8

This is an introductory course for the Drywall Finisher learning the NO-COAT brand of corner beads and trim (Certification Period: Permanent).

**PNT 7500 Introduction
to Spray Painting**

Hour/s: 8

This course will expose painters to the different methods of spray applying coatings in use today. In addition to a discussion on safety requirements, the Students will learn the basics of the following spray systems: Conventional or Air, High Volume Low Pressure, Airless, Air-Assisted Airless, and Electrostatic Spray Systems.

With Spanish version SPN 7500 Introduccion a la Pintura con Equipo de Rociado



COURSE

DESCRIPTION

PNT 7501 Airless Spray Systems

Hour/s: 8

Airless spray painting gets its name from the fact that compressed air is not used with the paint to form the spray. The principle of airless spray painting is often compared to the spray created by the nozzle on a garden water hose. The Students in this course will be able to discuss various aspects of the airless spray system. This includes explaining the principles and safety precautions of the airless spray system, making comparisons of the airless system to conventional air spray speed, and calculating paint pressure generated by an airless spray system using a paint-to-air ratio and air psi.

PNT 7502 Conventional Air-Spray Systems

Hour/s: 8

Overspray is a major problem in the finishing industry. Virtually all spray finishing operations can be adversely affected by overspray and can result in costly material, maintenance and lost time. Operators of spray painting equipment can also be adversely affected by overspray which can emit hazardous vapors into the air. Students will learn the basics of the HVLP airless spray system and the advantages, disadvantages and techniques for using it. Students will be able to discuss technical aspects of the HVLP that make it a good choice for spray painting.

PNT 7503 Electrostatic Spray Systems

Hour/s: 8

Electrostatic spray painting systems add an electrical charge to paint particles which have been atomized. These charged paint particles are attracted to the nearest grounded painting surface. This course will give the Student the skills and knowledge to use the terminology associated with the electrostatic spray painting system and describe the advantages and principles of the electrostatic spray painting system. He/she will demonstrate how to use the electrostatic spray equipment safely and with the proper techniques.

PNT 7504 HVLP Spray Systems

Hour/s: 8

HVLP stands for “high volume low pressure” systems. HVLP sprayers function by using high volumes of air to atomize paint, but at low air pressure. This course will provide Students with the knowledge to describe how HVLP systems work, its major components and the advantages and disadvantages that are associated with using the system. Students will also learn how to create different fan patterns and perform maintenance on HVLP system equipment.



COURSE

DESCRIPTION

PNT 7505 Metalizing Systems

Hour/s: 8

Thermal spraying is a unique coating system that is used on metal substrates. It is a method in which various types of metals are heated to a liquid state and then applied to a metal substrate using compressed air. This system is important in protecting metal structures that are constantly exposed to the elements. In this course the Student will learn the thermal spray process. They will also learn application techniques, maintenance procedures, common wire materials, major components and hazards associated with the thermal spraying system.

PNT 7506 Pavement Markers and Stripers

Hour/s: 8

The job of a striper includes a wide variety of practices and procedures. This course will focus on surface preparation and on the basics of using walk-behind striping equipment. Students will not only learn how to use walk-behind striping tools but also gain experience using highway striping equipment.

PNT 7507 Airless Spray Application Awareness

Hour/s: 4

This course introduces the basic terms associated with airless spray application and identifies the equipment components used. It also discusses proper spray application procedures and spray pattern problems.

PNT 7508C Scuff-Master (CERTIFICATION)

Hour/s: 8

The course describes how compressed air is used for power in a conventional air spray system using scuff-master product, explains the functions of compressors and other air and material supply, and control equipment used in a conventional air spray system using scuff-master product, demonstrates how to use the various types of hose connections and fittings with scuff-master product, and describes terms such as: CFM, Agitators, PSI, Air Regulators, Separators, Hose ID, and Pressure Feed Tanks using scuff-master product (Certification Period: 24 months).

Course for scuff-master products:

- A. Smooth Pearl
- B. Solid Metal
- C. Ambient Metal
- D. Ambient Design
- E. Armor

COURSE

DESCRIPTION

PNT 7509C Zolatone (CERTIFICATION)

Hour/s: 8

The course describes how compressed air is used for power in a conventional air spray system using Zolatone product, explains the functions of compressors and other air and material supply, and control equipment used in a conventional air spray system using Zolatone product, demonstrates how to use the various type Zolatone s of hose connections and fittings with Zolatone product, and describes terms such as: CFM, Agitators, PSI, Air Regulators, Separators, Hose ID, and Pressure Feed Tanks using Zolatone product. (Certification Period: 24 months).

Course for Zolatone products:

- A. Counterpoint
- B. Liuminations
- C. Metal
- D. Polomyx
- E. Polomyx Airless

PNT 7510 Introduction to VR SimSpray

Hour/s: 4

SimSpray is an immersive virtual reality painting simulation. The students will learn how to assemble and disassemble the VR SIMSpray and practice using the equipment.

PNT 7511C Architectural Coatings (CERTIFICATION)

Hour/s: 32

The course describes how compressed air is used for power in a conventional air spray system using architectural coatings, and explains the functions of compressors and other air and material supply, and control equipment used in a conventional air spray system using architectural coatings (Certification Period: 72 months).



COURSE

DESCRIPTION

PNT 7600 Introduction to Wallcoverings

Hour/s: 2

This course intends to teach the basic fundamentals of Wallcovering, including tools used, necessary planning, preparatory work including surface preparation, and how to hang Wallcovering properly. Installers should take great care when estimating, calculating and determining the layout of the walls and ceilings to avoid costly and time consuming mistakes and wasted materials. This course will give a brief history of Wallcovering, its terms, materials and basic measurements and processes for producing patterns and designs and ordering proper quantities of materials.

PNT 7601 Preparation of Materials and Surfaces

Hour/s: 6

Wallcoverings can be installed on almost any sound substrate if the proper procedures for preparing the surface are followed. The course will discuss the types of new substrates to which Wallcovering may be applied. The Students will look at all aspects of surface preparation using procedures for inspecting, identifying problems or imperfections, and determining solutions and materials. Additionally, the Students will discuss old painted or previously covered surfaces and the methods and tools used for removing the Wallcovering. Students will discuss potential problems that they might encounter in previously covered surfaces and the solutions and safety precautions that must be observed during removal and preparation for new the wall covering.

PNT 7602 Wallcovering Applications

Hour/s: 8

The Wallcovering industry is flourishing with many functional and decorative options for covering a wall. In this course, Students will learn the basic application procedures for many types of Wallcovering. The materials discussed will include the following types of Wallcovering: wall papers, fabric, foil, cork, carpet, exotic and specialty coverings and framed and stretched fabric Wallcovering. Students will discuss the availability of these wall coverings, the specific properties of each type of covering, problems when hanging and handling wall coverings as well as types of adhesives used to secure the wall coverings.

PNT 7603 Wallcovering Applications II

Hour/s: 8

The module is designed to teach the student about Wallcovering Applications. Given a wallcovering job, the student will be able to install the wallcoverings and fix specific failures using the right tools and wallcovering materials while following the most efficient procedures and applying the best techniques for wallcovering.

Note: Use the same curriculum as PNT 7602

COURSE

DESCRIPTION

PNT 7604 Wallcovering Mini-Labs

Hour/s: 40

The course includes the following topics: Mini-Lab#1: Advanced Vinyl, Walltalkers (4 hours), Mini-Lab#2: Advanced Fabrics (Grass Cloth) (4 hours), Mini-Lab#3: Advanced Exotics- Wood Veneer Wall Covering (8 hours), Mini-Lab#4: Digital Murals (4 hours), Mini-Lab#5: Digital Graphics (4 hours), Mini-Lab#6: Films-3M Di Noc, Belbien (8 hours), Mini-Lab#7: Advanced Fabric (Tek Wall)(4 hours), and Mini-Lab#8: High Performance Wall Covering (Acrovyn)(4 hours).

PNT 7605 P3TEC Preferred Technician

Hour/s: 16

The P3TEC 16-hour Preferred Technician course has been built through the collective efforts of the IUPAT and P3TEC to help create new job opportunities for our members and to mitigate installation failures for the manufacturer. It is designed to be a worker upgrade that demonstrates proper prep and installation techniques for this high-impact material.

PNT 7606C Certified Vinyl Wall Covering Installer Program (CERTIFICATION)

Hour/s: 8

This comprehensive eight-hour certification program equips painters with the specialized skills and knowledge necessary for the professional installation of various types of vinyl wall coverings. Upon successful completion, certified installers will demonstrate proficiency in surface preparation, material handling and measurement, adhesive application, installation techniques, seam treatment, obstacle negotiation, and safe practices (Certification Period: 36 months).

COURSE

DESCRIPTION

PNT 7700 Abrasive and Water Blasting

Hour/s: 8

In this course, the apprentice painter will learn what abrasive blasting is and how, when and why is it used. He/she will be able to describe the basic principles of abrasive blasting and the terms associated with this aspect of the trade. The course will cover surface preparation, selection and characteristics of materials, and standards and specifications regarding the use of abrasive blasting and its associated equipment and tools. Students will also learn about surface preparation for water blasting and abrasive blasting for exposed aggregate finishes.

PNT 7701 Wet Abrasive Blasting

Hour/s: 8

This course discusses Wet Abrasive Blast (WAB) equipment, standards, and surface preparation requirements.

PNT 7702C 3M Products: Tapes-Abrasives-Adhesives-Safety (CERTIFICATION)

Hour/s: 4

The 3M training class will include product knowledge, application, and best practices for use. We will cover our tapes, abrasives, masking products, safety, and adhesives. We will answer any questions the class has, and everybody will go home with samples of our newest products to try for themselves. This will be a 4-hour training (Certification Period: Permanent).

Member Card Abbreviation: 3M: Tapes-Abrasives-Adhesives

PNT 7800 Wood Products

Hour/s: 2

This course explains the characteristics of the different types of wood and how these characteristics affect wood finishing.

PNT 7801 Wood Preparation

Hour/s: 4

This course talks about preparation of materials and surfaces for wood finishing. Wood can be prepared by using coated abrasives, sanding procedures, and using wood bleaching, sealers, and wood filler materials.

PNT 7802 Wood Finishes

Hour/s: 8

This is the application course which demonstrates how to apply clear wood finishing materials to various kinds of wood by using the right tools, following correct application sequence, and practicing appropriate safety procedures. Students will also discuss terms and technical information, become familiar with commonly used wood finishing equipment and materials and the basic procedure for performing wood finishing.

COURSE

DESCRIPTION

PNT 7803 Post Application of Wood Finishes

Hour/s: 2

This final wood finishes course discusses the procedures for maintenance, removal, and repair of old and new wood finishes.

PNT 7900 Introduction to Special Decorative Finishes

Hour/s: 2

This course discusses the basic techniques and common base finishes of trademark special decorative finishes. Topics of discussion will include terms and technical information on special decorative finishes, commonly used equipment and materials, and the basic procedures for performing special decorative finishes.

PNT 7901 Decorative Finishes I

Hour/s: 8

This course allows novices or seasoned professionals to learn about the products and application techniques developed for the professional faux finisher. This intense class will cover everything needed to bring IUPAT painting and decorating tradesperson skills to a higher level. Starting with the basics, and progressing through the full range of Faux Effects (or other similar industry recognized manufacturer) products the course Student will complete over thirty samples, integrating the remarkable characteristics the product line has to offer, while being amazed at the easy application process.

PNT 7902 Decorative Finishes II

Hour/s: 6

This course provides experienced painting professionals the opportunity to use the knowledge and skills taught in Decorative Finishes I to build upon products and advanced application techniques for the faux finisher. In this hands-on course, exciting new materials will be introduced using a variety of innovative methods. Familiar products combined with new techniques will allow students to increase their proficiency with these products and create 20 spectacular showcase finishes. Additionally, Students will demonstrate these new skills to accurately complete a decorative finish job from start to finish, including: Bid Specifications; Estimation of Time, Materials, and Products; Job-site Preparation; Customer Service; and Marketing Methods. - Or other similar industry recognized manufacturer.



Sign and Display Worker

DRAFT – No Approved Standards

Course Competencies

The Program level curriculum builds upon the foundation of the core curriculum skills, knowledge, and abilities. At the program level, craft-specific standardized curriculum is designed by an ad-hoc committee comprised of the iFTI Curriculum Department, IUPAT/iFTI subject matter experts, employers, manufacturers, and associations.

Apprentices will be assessed on their acquisition of knowledge, skills and abilities in the core curriculum through hands-on and written tests as well as On-the-Job Learning (OJL) performance measures.

Additionally, the apprentices will integrate their core knowledge, skills and abilities into the pursuit of specific craft training throughout the term of their apprenticeship. This program specific training is designed to build the technical and professional skills needed by the crafts person to successfully perform his or her trade profession.



Apprenticeship Program

The Sign and Display Apprenticeship Program is co-sponsored by the IUPAT/iFTI to meet the ever-changing needs of the industry and the affiliates it serves. The apprenticeship program ensures that students will learn the theoretical knowledge and the practical skills necessary to be a successful Sign and Display craftsperson. During this program of study, students will successfully complete the IUPAT/iFTI Core curriculum and integrate it into the Sign and Display craft specific training. Students successfully completing this program apply their skills and abilities working in the Sign and Display trade.



Description of Occupation

Sign and Display craftspeople design, fabricate, construct, paint and install interior and exterior signage of all types, including lettering for windows and vehicles, plastic and neon signs, as well as for trade shows, office complexes, shopping plazas and other locations and for various purposes. Signs are crafted to meet the requirements of the customer using innovative and high quality workmanship to create aesthetically pleasing signs made of materials such as metal, vinyl, glass, Plexiglas, wood, neon, and plastic. Apprentices typically specialize in a particular segment of the industry, e.g., graphic design, fabrication, silk screening, etc. and learn to use state of the art equipment to perform such jobs as computerized letter fabrication, welding, neon bending, computer routed lettering, screen printing, and more. Apprentices learn blueprint reading, surface preparation, use and care of state-of-the-art equipment, along with safe practices and health and safety regulations.

Working Environment

Sign and Display is performed both indoors and outdoors and workers typically have regular daytime hours. When the job requires work to be completed in a heavily populated or high traffic area, then the Sign and Display worker may be required to work evenings and weekends to avoid disruption of the business or danger to the worker, the customers and/or employees.

Training/Skill Set

The Sign and Display industry uses Apprenticeship Training as its greatest opportunity to expand the workforce. People with limited or no experience in the industry can use the available apprenticeship program as a catalyst to becoming a qualified Journeyman in the trade.

The Sign and Display curriculum and training will provide the skills, knowledge, and abilities needed to meet the needs of the industry and to ensure that each worker is equipped to use the technology, materials, and applicable methods of installation as well as adhering to all quality and safety standards on the job.

Sign and Display workers learning their trade through an apprenticeship program will receive relevant classroom training as well as on-the-job training and experience. The on-the-job training may include tasks such as cutting, painting, stenciling on various substrates as well as using tools and screen printing equipment, computer software, installation methods and other materials of the trade.

Skills needed to become a Sign and Display worker include manual dexterity, eye-hand coordination, physical fitness, and a good sense of balance and color. Emphasized early in the apprentice's career is adherence to and knowledge of OSHA standards for personal safety; safety on the jobsite; and proper handling of tools, materials and equipment. Additionally, the student will discuss safe work practices when working with signage materials.

Program Level Competencies

With reference to each of the respective areas of the Sign and Display trade, apprentices successfully completing this program will be able to:

- Explore trade options as they pertain to the Sign and Display industry.
- Identify trade-related materials and applications.
- Distinguish between the various sign installation materials and applications.
- Install, repair and replace Sign and Display materials.
- Utilize trade-related tools and equipment.
- Interpret drawings related to the Sign and Display trade.
- Apply math calculations related to the Sign and Display trade.
- Demonstrate the proper measurement, preparation, and installation methods of the Sign and Display industry.
- Apply the standards of quality control and quality assurance in the Sign and Display industry.
- Exemplify the qualities and characteristics necessary to be a leader in the Sign and Display industry.

Suggested Program of Study

While participating in the Sign and Display program of study, apprentices will be exposed to a maximum of 288 hours of Related Technical Instruction (RTI) in the following disciplines:

- Core Curriculum
- Health and Safety Awareness for the Sign and Display Trade
- Introduction to the Sign and Display Trade
- Lettering and Related Equipment
- Tools, Materials and Handling
- Techniques and Methods of Fabrication and Layout
- Sign Installation Techniques
- Screen Printing Techniques, Preparation and Maintenance
- Computer Generated Sign Applications

The suggested course of study for the Sign and Display On-the-Job Learning and Related Technical Instruction is outlined below.

STD CAT	CATEGORY NAME	OJL HOURS	RI HOURS
1.00-3.00	Core Curriculum	32	96
10.01	Health and Safety Awareness for the Sign and Display Trade <ul style="list-style-type: none"> • Power Tool Safety Awareness • Shop Machinery Safety 	160-240	20
10.02	Introduction to the Sign and Display Trade <ul style="list-style-type: none"> • Mathematics for the Glazing Trade • Introduction to Display • Tools of the Sign Trade 	200-400	40
10.03	Lettering and Related Equipment <ul style="list-style-type: none"> • Sign Layout • Vehicle Signage 	200-400	20
10.04	Tools, Materials and Handling <ul style="list-style-type: none"> • Tools of the Sign Trade • Power Tool Safety Awareness • Shop Machinery Safety • Freight Handling 	400-600	20
10.05	Techniques and Methods of Fabrication and Layout <ul style="list-style-type: none"> • Basic Vinyl Application 	800-1000	80
10.06	Sign Installation Techniques <ul style="list-style-type: none"> • Booth Installation • Sign Layout 	1000-1400	80
10.07	Screen Printing Techniques, Preparation and Maintenance <ul style="list-style-type: none"> • Sign Layout 	800-1000	40
10.08	Computer Generated Sign Applications <ul style="list-style-type: none"> • Basic Vinyl Application 	600-800	24
		4192-5872	420

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
1.0-3.0			Core Curriculum	32	96
10.01	SGN	8000-8099	Health and Safety Awareness for the Sign and Display Trade	160-240	20
			Course Code and Course Name	Hours	Months Valid
			SGN 8000 Signage Codes and Permits	8	N/A
			SGN 8001-8099 Not Yet Assigned	XX	N/A
10.02	SGN	8100-8199	Introduction to the Sign and Display Trade	200-400	40
			Course Code and Course Name	Hours	Months Valid
			SGN 8100 Introduction to Sign Making	4	N/A
			SGN 8101 Portfolio Compilation for Sign Techs	8	N/A
			SGN 8103 ADA Signage	8	N/A
			SGN 8104-8199 Not Yet Assigned	XX	N/A
10.03	SGN	8200-8299	Lettering and Related Equipment	200-400	20
			Course Code and Course Name	Hours	Months Valid
			SGN 8200 Introduction to Sign Layout and Design	12	N/A
			SGN 8201 Dimensional Lettering Installation I	8	N/A
			SGN 8202 Channel Lettering Installation	8	N/A
			SGN 8203 Vehicle Wrap Introduction	8	N/A
			SGN 8204-8299 Not Yet Assigned	XX	N/A
10.04	SGN	8300-8399	Tools, Materials and Handling	400-600	60
			Course Code and Course Name	Hours	Months Valid
			SGN 8300 Introduction to Tool and Equipment	3	N/A
			SGN 8301-8399 Not Yet Assigned	XX	N/A
10.05	SGN	8400-8499	Techniques and Methods of Fabrication and Layout	800-1000	80
			Course Code and Course Name	Hours	Months Valid
			SGN 8400 Taking Signage Requests and Working with Customers	8	N/A
			SGN 8401 Welding for the Sign Trade	8	N/A
			SGN 8402 Signage Site Surveys	4	N/A
			SGN 8403 Dimensional Letter Fabrication	16	N/A
			SGN 8404 Channel Lettering Fabrication	8	N/A
			SGN 8405 Sign Cabinet and Awning Fabrication	8	N/A
			SGN 8406 Vinyl Lettering Fabrication and Application	12	N/A

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
10.05	SGN	8400- 8499	Techniques and Methods of Fabrication and Layout, continued	800-1000	80
			Course Code and Course Name	Hours	Months Valid
			SGN 8407 Environmental Graphics and Signage Systems	12	N/A
			SGN 8408-8499 Not Yet Assigned	XX	N/A
10.06	SGN	8500- 8599	Sign Installation Techniques	1000- 1400	80
			Course Code and Course Name	Hours	Months Valid
			SGN 8500 Sign Installation Techniques	8	N/A
			SGN 8501 Post and Panel and Pylon Sign Installation	4	N/A
			SGN 8502 LED and Other Electrical Signage	5	N/A
			SGN 8503 Cabinet Installations	4	N/A
			SGN 8504 Intermediate Cabinet Sign Installation	4	N/A
			SGN 8505 Monument and Complex Sign Installation	8	N/A
			SGN 8506 Large Format Vinyl Installation	8	N/A
			SGN 8507-8599 Not Yet Assigned	XX	N/A
10.07	SGN	8600- 8699	Screen Printing Techniques, Preparation and Maintenance	800-1000	40
			Course Code and Course Name	Hours	Months Valid
			SGN 8600 Silk Screening and Printing Basics	4	N/A
			SGN 8601-8699 Not Yet Assigned	XX	N/A
10.08	SGN	8700- 8799	Computer Generated Sign Applications	600-800	24
			Course Code and Course Name	Hours	Months Valid
			SGN 8700 Introduction to Dynamic Digital Signage	8	N/A
			SGN 8701 Engraving and CNC Routing for Signs	4	N/A
			SGN 8702-8799 Not Yet Assigned	XX	N/A
10.09	SGN	8900- 8999	Evaluation		
			Course Code and Course Name	Hours	Months Valid
			SGN 8900 XX	XX	N/A
				4192- 5872	420

SIGN Course Competencies

This table identifies the course competencies that the Sign and Display apprentice will successfully complete.

10.0 SIGN AND DISPLAY

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
10.01 HEALTH AND SAFETY AWARENESS FOR THE SIGN AND DISPLAY TRADE	<ul style="list-style-type: none"> Don (put on), doff (remove), inspect, and maintain the proper PPE that should be worn including, but not limited to: <ul style="list-style-type: none"> Head Eyes Hands Feet Face Ears Body Respiratory Perform a job analysis for safe working conditions: <ul style="list-style-type: none"> Attend pre-job safety meetings Adhere to site specific safety rules and federal regulations Read and interpret MSDS Establish and maintain a safe working perimeter Demonstrate the safe operating procedures of forklift and man-lifting equipment. Safely demonstrate the proper use and maintenance of Sign and Display tools including, but not limited to: <ul style="list-style-type: none"> Basic tools Fastening tools Scribers Cutting tools Hand Saws Straight Edges Trowel Spreaders Power tools Maintain clean work areas (housekeeping). Identify the locations of First Aid and fire equipment. 	<ul style="list-style-type: none"> Recognize the important areas of OSHA in general terms. Identify the Safety Regulations as they apply to safe work practices in the ICLAS trade with emphasis on: <ul style="list-style-type: none"> Identification of safety hazards (unsafe conditions) Proper handling of materials, including hazardous Maintenance and safe operation of tools PPE Describe the precautions that must be followed when using flammable liquids and adhesives. Explain what a Material Safety Data Sheet (MSDS) is, its purpose and limitation. Describe the role of employer, supplier, and worker in the education of workers. Outline emergency procedures and how to obtain assistance for injured workers. Describe the proper technique (ergonomics) for lifting and transporting Sign and Display materials. Identify and describe the safe operation of various shop machinery, including, but not limited to: <ul style="list-style-type: none"> Bench grinders Saws (radial arm, table, band, panel, cut off) Drill press Mechanical shear Brakes (Hand and Floor) Router Plasma cutters Abrasive blasting and sand blasting Generators

10.0 SIGN AND DISPLAY, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
10.02 INTRODUCTION TO THE SIGN AND DISPLAY TRADE	<ul style="list-style-type: none"> Demonstrate the characteristics of a professional Sign and Display, including: <ul style="list-style-type: none"> Exhibit suitable appearance and personal hygiene. Exhibit proper attitude and behavior on the job site, including private residences and other occupied buildings. Deal with difficult customers in a professional and courteous manner. Interpret written and verbal instructions. Interpret written and verbal instructions. Recognize the importance of cooperation and interaction with related trades on a job site. Demonstrate the ability to follow specific work place protocol and procedures. Demonstrate proper operation of craft specific tools. Demonstrate math applications relating to sign and display jobs. 	<ul style="list-style-type: none"> Describe the various jobs of a sign and display. Identify and explain the basic terminology used in the sign and display trade. Identify the historical events of the modern sign and display trade. Describe the working conditions of the sign and display trade. Identify the career options and advancement opportunities in the sign and display trade. Differentiate between the various materials used in the sign and display trade, including metal, vinyl, glass, wood, neon, and plastic. Identify and describe commonly used tools in the trade, including their custody, care, and maintenance.
10.03 LETTERING AND RELATED EQUIPMENT	<ul style="list-style-type: none"> Demonstrate the use of following tools and equipment in commercial hand lettering: <ul style="list-style-type: none"> Brushes, enamel paints, proper thinning procedures Projection equipment Pounce wheel and pounce pattern Demonstrate mixing and matching colors. Demonstrate hand cutting of frisket and stencil applications. Demonstrate preparation and painting of billboard panels. Demonstrate the ability to properly prime closed areas and paint structural steel. Demonstrate the proper method for weeding and taping. Demonstrate the measurement and layout of prepared graphics. Demonstrate proper application of vinyl lettering and graphics on various surfaces. Demonstrate acceptable methods for repair of damaged or incorrect graphics. Demonstrate the application of vehicle signage layout principles given the clients' requirements. 	<ul style="list-style-type: none"> Identify tools and equipment used in commercial hand lettering, such as brushes, enamel paints, proper thinning procedures; projection equipment, pounce wheel and pounce pattern. Describe frisket and stencil applications. Describe the steps necessary to prepare billboard panels and structural steel for painting. Describe weeding and taping and when they are used. Describe the steps taken to prepare various surfaces for vinyl letter application. Identify and describe damaged graphics and the methods by which they can be repaired. Identify emerging technologies that exist in the sign and display trade as it pertains to vehicle signage. Identify and explain the six (6) components of good vehicle signage layout.

10.0 SIGN AND DISPLAY, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
10.04 TOOLS, MATERIALS AND HANDLING	<ul style="list-style-type: none"> • Demonstrate how to hold tools in the proper manner. • Demonstrate proper inspection and documentation of materials received. • Use the proper hardware and methods to lift, support, fasten, transport, and remove a load of materials. • Demonstrate the proper and efficient use of tools used for fastening, cutting, leveling, measuring and application, including specialty tools. • Demonstrate the efficient use of large power equipment (i.e., panel and band saws, pressure washer). • Demonstrate the ability to calculate the load and its attachment points. 	<ul style="list-style-type: none"> • Discuss the importance of the quality of the tools used on the job. • Identify and describe the procedures and equipment used to pickup, fasten, load/unload, transport and store materials, including, but not limited to: <ul style="list-style-type: none"> ○ Lifts (Scissor, Boom, Genie) ○ Crane (overhead or mobile) ○ Dollies (various styles) ○ Johnson Bar (J-Bar) ○ Forklift ○ Pallet Jack ○ Security Cage or Jockey Box or C-Van Box ○ Bander (set with stretcher, crimper, steel banding and clips) • Identify and describe the application of the tools used in Sign and Display trade, including, but not limited to: <ul style="list-style-type: none"> ○ Measuring devices (tapes, rulers, sliding T Bevel Gauge) ○ Fastening tools (hammer, pliers, grips, ratchet wrench, screwdrivers, riveters) ○ Cutting tools (knives, aviation snips, scissors, saws, files) ○ Leveling devices (chalk line reel, plumb bob, levels) ○ Specialty tools (awl, pounce wheel/bag or box, cats paw) ○ Application tools (tweezers, squeegee, brushes, caulking gun)
10.05 TECHNIQUES AND METHODS OF FABRICATION AND LAYOUT	<ul style="list-style-type: none"> • Create thumbnail sketches to scale that meet the client's needs and conforms to the principles of good sign layout. • Manufacture signage according to drawing specifications. • Demonstrate the proper selection, setup, safe operation and maintenance of shop equipment. • Demonstrate the proper selection of backgrounds for wood, plastic or metal. • Demonstrate cutting and shaping procedures for wood and foam signs. • Demonstrate efficient layout using hand cutting, notching, shearing, and break forming of sheet metal. 	<ul style="list-style-type: none"> • Identify and explore all the client's considerations prior to designing a sign. • Identify the six components of a good sign layout. • Identify the primary and secondary text and graphics with consideration to the sign's application. • Identify the appropriate materials for the application. • Discuss layout in terms of execution (i.e., hand cutting, notching, shearing, and break forming of sheet metal). • Describe MDO Sign Board background. • Identify the appropriate materials and techniques to achieve specified finish type and appearance.

10.0 SIGN AND DISPLAY, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
10.05 TECHNIQUES AND METHODS OF FABRICATION AND LAYOUT, CONTINUED	<ul style="list-style-type: none">• Demonstrate the proper preparation of MDO Sign Board backgrounds.• Select and apply the appropriate materials and techniques to achieve specified finish type and appearance.• Demonstrate the methods to fabricate base materials including welding, cutting, and shaping.• Fabricate appropriate frames for wood and aluminum signs, including welding and installing mounting hardware.• Demonstrate the ability to select from a variety of plastics.• Demonstrate proper cutting techniques.• Prepare aluminum, glass, plastic, vinyl, fiberglass, painted and vehicle surfaces for vinyl signage application.• Demonstrate cleanup procedures utilized at the completion of the application process.• Read scale drawings and determine placements.• Demonstrate the application of papers/mask.• Demonstrate the ability to cut and hem banner stock.<ul style="list-style-type: none">○ Hem, apply fasteners and reinforce as needed.○ Stretch banner for various applications.○ Position and apply lettering, printed images, logos and other graphics.	<ul style="list-style-type: none">• Identify and describe the various installation techniques used in the sign industry.• Describe the preparations for different substrates.• Identify the application papers/mask.• Identify the various banner substrates and installation hardware, such as grommets and banner-ups and fabrication techniques.• Describe the steps involved with cutting and hemming banner stock.
10.06 SIGN INSTALLATION TECHNIQUES	<ul style="list-style-type: none">• Demonstrate the wiring of a fluorescent box sign with interior lamps using all components, including ballasts, sockets, lamps and wire.• Install and maintain neon tubing, transformers and hardware.• Install and maintain LED electric fixtures, power supply, and wiring.• Install second surface background or large format graphics for both wet and dry application.• Demonstrate individual metal or plastic letters and pattern making.• Assemble and install post and panel signs.	<ul style="list-style-type: none">• Identify installation tools.• Identify the variety of electric signs and their main components, including fluorescent signs, neon signs, LED signs and all components and wiring necessary.• Describe the necessary maintenance for the components of electric signs, including:<ul style="list-style-type: none">○ LED fixtures, power supply, wiring, tubing, transformers, hardware, lamps, sockets, ballasts, tools.• Identify appropriate methods and components for anchoring and/or securing various types of signage (i.e., pole mounted, flag mounted, wall mounted).

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
10.06 SIGN INSTALLATION TECHNIQUES, CONTINUED	<ul style="list-style-type: none"> • Demonstrate various components of sign installation and maintenance, including: <ul style="list-style-type: none"> ◦ Changing sign faces ◦ Installing lamps, sockets, ballasts, transformers and related hardware. ◦ Setting-up elevated work platforms and using the proper tools and PPE. • Anchor and/or secure various types of signage (i.e., pole mounted, flag mounted, wall mounted). 	
10.07 SCREEN PRINTING TECHNIQUES, PREPARATION AND MAINTENANCE	<ul style="list-style-type: none"> • Demonstrate the application of emulsion to screens within time constraints. • Demonstrate computer techniques of artwork preparation, including enlarging and reducing. • Demonstrate the ability to register screens on exposure table and burn in screens at required time interval. • Demonstrate image rinsing and drying. • Demonstrate the ability to register screens for use on a 4 color/2 station screen printing station. • Demonstrate cleaning ability of all parts involved in screen preparation. • Demonstrate the application of printing inks and plastisols to fabric and various substrates. <ul style="list-style-type: none"> ◦ Set up and run dryer(s). ◦ Apply printing inks and plastisols to fabric and various substrates. ◦ Troubleshoot printing errors and material failure. • Clean-up and reclaim screens for future use. 	<ul style="list-style-type: none"> • Describe the mechanical operation of equipment used in screen printing. • Describe the steps involved in preparing screens for printing. • Explain the screen printing process.

10.0 SIGN AND DISPLAY, CONTINUED

Course	On-the-Job Learning (OJL)	Related Instruction (RI)
10.08 COMPUTER GENERATED SIGN APPLICATIONS	<ul style="list-style-type: none">• Demonstrate the use of the computer software for output operations, such as graphics, material cutting, and shaping.• Demonstrate plotting and printing on the computer, including:• Demonstrate computer functions, such as signing into the computer, test draw on paper at full size or as scale drawing.• Demonstrate economic operating procedures and maintenance.• Demonstrate letter spacing and kerning.• Evaluate entry and correct as needed until customer's job request is satisfactory.• Setup for vinyl cutting and/or printing.• Cut vinyl lettering and send to thermal printing, including:• Measure and layout prepared graphics on various surfaces.• Synchronize plotter and printer for final image.• Demonstrate acceptable methods for repair of damage or incorrect graphics.	<ul style="list-style-type: none">• Identify computer software and output operations and the applications for which it may be used, such as graphics, material cutting, and shaping.• Identify the key application components when using computer software for plotting and printing.• Describe letter spacing and kerning ability.• Identify the qualities of a customer job request for computer entry.• Describe the steps for vinyl cutting and/or printing.



Sign and Display Course Description

COURSE	DESCRIPTION
SGN 8000 Signage Codes and Permits	Hour/s: 8 Review of the types of regulatory entities and their jurisdiction in governing signage design along with permit requirements.
SGN 8001-8099 Not Yet Assigned	Hour/s: XXX XXX
SGN 8100 Introduction to Sign Making	Hour/s: 4 This class gives the basics of making signs of all types for the sign industry.
SGN 8101 Portfolio Compilation for Sign Techs	Hour/s: 8 Students get an overview of what constitutes an effective portfolio and how it can be used to market their own skills as well as show customers examples of work that can be done.
SGN 8102 ADA Signage	Hour/s: 8 Students get an introductory overview into the standards that ADA requirements have for signage.
SGN 8103-8199 Not Yet Assigned	Hour/s: XXX XXX
SGN 8200 Introduction to Sign Layout and Design	Hour/s: 12 This course gives students a very basic knowledge of sign layout and design with some practical training.
SGN 8201 Dimensional Lettering Installation I	Hour/s: 8 Students will create a pattern from given dimensional letter, stud mount the letters, and know safety considerations for the installation process.

COURSE	DESCRIPTION
SGN 8202 Channel Lettering Installation	<p>Hour/s: 8</p> <p>Students will have the procedure of installing channel lettering presented and will have an opportunity to practice the techniques and skills.</p>
SGN 8203 Vehicle Wrap Introduction	<p>Hour/s: 8</p> <p>Brief analysis of vehicle wrap industry and what it will take to get started in this advertising niche.</p>
SGN 8204-8299 Not Yet Assigned	<p>Hour/s: XXX</p> <p>XXX</p>
SGN 8300 Introduction to Tool and Equipment	<p>Hour/s: 3</p> <p>This class gives the student an opportunity to learn the basic tools and equipment for general sign making.</p>
SGN 8301-8399 Not Yet Assigned	<p>Hour/s: XXX</p> <p>XXX</p>
SGN 8400 Taking Signage Requests and Working with Customers	<p>Hour/s: 8</p> <p>Summarize the skills required in working with customers and taking signage orders.</p>
SGN 8401 Welding for the Sign Trade	<p>Hour/s: 8</p> <p>XXX</p>
SGN 8402 Signage Site Surveys	<p>Hour/s: 4</p> <p>How to do a proper signage site survey including taking necessary notes, photographs, measurements, and gathering necessary information to the signage fabrication and installation.</p>
SGN 8403 Dimensional Letter Fabrication	<p>Hour/s: 16</p> <p>Give students a summary of the different types of dimensional letters and will give students hands on training in construction.</p>

COURSE	DESCRIPTION
SGN 8404 Channel Lettering Fabrication	<p>Hour/s: 8</p> <p>Basic understanding of how the main types of channel lettering are fabricated and will have an opportunity to practice the skills needed in fabrication.</p>
SGN 8405 Sign Cabinet and Awning Fabrication	<p>Hour/s: 8</p> <p>Gives student knowledge of the different types of sign cabinet and awning signs along with an introduction to the skills necessary to build such structures.</p>
SGN 8406 Vinyl Lettering Fabrication and Application	<p>Hour/s: 12</p> <p>Explanation of the process involved to fabricate and apply vinyl lettering along with lab work.</p>
SGN 8407 Environmental Graphics and Signage Systems	<p>Hour/s: 12</p> <p>Basic understanding of environmental graphics and related signage systems. This includes way finding signage packages, combination, kiosks, three-dimensional sign types, etc.</p>
SGN 8408-8499 Not Yet Assigned	<p>Hour/s: XXX</p> <p>XXX</p>
SGN 8500 Sign Installation Techniques	<p>Hour/s: 8</p> <p>The training provides installation techniques that are not covered in other sign specific installation courses.</p>
SGN 8501 Post and Panel and Pylon Sign Installation	<p>Hour/s: 4</p> <p>Students will create a pattern from given dimensional letter, stud mount the letters, and know safety considerations for the installation process.</p>
SGN 8502 LED and Other Electrical Signage	<p>Hour/s: 5</p> <p>Basic knowledge of LED and Electrical signage with some practical training in the fabrication.</p>
SGN 8503 Cabinet Installations	<p>Hour/s: 4</p> <p>Review the different types of cabinet and warning signs found in the sign industry along with installation techniques.</p>

COURSE	DESCRIPTION
SGN 8504 Intermediate Cabinet Sign Installation	Hour/s: 4 A further dive into the cabinet sign installand give the student inforation on installing more challenging cabinet fixtures and installation locations.
SGN 8505 Monument and Complex Sign Installation	Hour/s: 8 Basic understanding of techniques used for monument, larger, and more ocmplex sign installations.
SGN 8506 Large Format Vinyl Installation	Hour/s: 8 Brief summary of large format graphics and where they are found in sign industry. Summary of tools needed and installation practices.
SGN 8507-8599 Not Yet Assigned	Hour/s: XXX XXX
SGN 8600 Silk Screening and Printing Basics	Hour/s: 4 Introductory overview of silk screening and digital printing. Learn the advantages of each and hands on practice for each.
SGN 8601-8699 Not Yet Assigned	Hour/s: XXX XXX
SGN 8700 Introduction to Dynamic Digital Signage	Hour/s: 8 Introduction to the growing industry of dynamic digital signage and an overview of the uses DDS has in signage.
SGN 8701 Engraving and CNC Routing for Signs	Hour/s: 4 Gives exposure to CNC routing capabilities for the sign industry and practice using a CNC engraver.
SGN 8702-8799 Not Yet Assigned	Hour/s: XXX XXX

Trade Show Worker

Course Competencies

The Program level curriculum builds upon the foundation of the core curriculum skills, knowledge, and abilities. At the program level, occupation-specific standardized curriculum is designed by an ad-hoc committee comprised of the FTI Curriculum Department, IUPAT/FTI subject matter experts, employers, manufacturers, and associations.

Apprentices will be assessed on their acquisition of knowledge, skills and abilities in the core curriculum through hands-on and written tests as well as on-the-job learning (OJL) performance measures.

Additionally, the apprentices will integrate their core knowledge, skills and abilities into the pursuit of specific occupation training throughout the term of their apprenticeship. This program specific training is designed to build the technical and professional skills needed by the apprentice to successfully perform his/her trade profession.

O*NET-SOC CODE: 47-4099.00

RAPIDS CODE:



Apprenticeship Program

The Tradeshow Worker Apprenticeship Program is co-sponsored by the IUPAT/FTI to meet the ever-changing needs of the industry and the affiliates it serves. The apprenticeship program ensures that apprentices will learn the theoretical knowledge and the practical skills necessary to be a successful Tradeshow Worker. During this program of study, apprentices will successfully complete the IUPAT/FTI core curriculum and integrate it into the Tradeshow Worker occupation specific training. Apprentices successfully completing this program apply their skills and abilities as a Tradeshow Worker.

Description of Occupation

Tradeshow Worker - The work of a Tradeshow craftsman encompasses a wide range of skills and tasks. At a tradeshow, you will see booths, furniture, and displays of all sorts, including boats, computers, professional services and other consumer products. Displays may range in size and detail from a small portable display to a large, elaborate, multi-level custom-designed exhibit with flashing lights or a waterfall. Tradeshow workers assemble and build exhibits in shops, as well as install and dismantle them at show locations.

Tradeshow work is mostly unknown to the public at large because the workers work up until the opening of a show and then return to work when the show closes. The display installers' profession is part of one of the fastest growing industries in the country. Convention centers are springing up all over the world and are constantly expanding and improving facilities in order to attract more clientele in this increasingly competitive market.

Training/Skill Set

The Tradeshow industry uses Apprenticeship Training as its greatest opportunity to expand the workforce. People with limited or no experience in the industry can use the available apprenticeship program as a catalyst to becoming a qualified Journeyperson in the trade.

The Tradeshow curriculum and training will provide the skills, knowledge, and abilities needed to meet the needs of the industry and to ensure that each worker is equipped to use the technology, materials, and applicable methods of installation as well as adhering to all quality and safety standards on every exhibit and job.

Tradeshow workers learning their trade through an apprenticeship program will receive relevant classroom training as well as on-the-job training and experience. The on-the-job training may include tasks such as building and fabricating, rigging, as well as using tools for assembly and installation of materials, and generating custom computer graphics and banners for exhibitors.

Skills needed to become a Tradeshow Worker include manual dexterity, eye-hand coordination, physical fitness, and a good sense of balance and color. Emphasized early in the apprentice's career is adherence to and knowledge of OSHA standards for personal safety; safety on the jobsite; and proper handling of tools, materials and equipment. Additionally, the student will discuss safe work practices when working with tradeshow materials.

Working Environment

The vast majority of tradeshow work is performed indoors and may have regular daytime hours, but can require longer hours or after business time hours. Since the tradeshow workers' job is performed prior to a show and immediately following the close of a show, workers can expect to work until the job is completed and all materials have been removed from the facility.

Program Level Competencies

With reference to each of the respective areas of the Tradeshow Worker occupation, apprentices successfully completing this program will be able to:

- ✓ Explore trade options as they pertain to the Trade Show industry.
- ✓ Identify trade-related materials and applications.
- ✓ Distinguish between the various Trade Show display installation methods, materials, and applications.
- ✓ Install, repair and replace Trade Show materials.
- ✓ Utilize trade-related tools and equipment.
- ✓ Interpret drawings related to the Trade Show craft.
- ✓ Apply math calculations related to the Trade Show craft.
- ✓ Demonstrate the proper measurement, preparation, and installation methods for various Trade Show displays.
- ✓ Apply the standards of quality control and quality assurance in the Trade Show industry.
- ✓ Exemplify the qualities and characteristics necessary to be a leader in the Trade Show industry.
- ✓ Learn to safely operate Aerial lifts, Scissor Lifts, Fork Lifts and other machinery necessary to accomplish work on the show floor.

Suggested Program of Study for the Tradeshow Worker Curriculum

The IUPAT/iFTI Program of Study for the Tradeshow Worker OJL and Related Instruction is outlined below. Under this hybrid approach, an apprentice must participate in the indicated minimum number of hours of OJL for each category of the program. The Program Sponsor is responsible for determining the number of RI hours that an apprentice must participate in based on the FTI guidance, local needs, and the mandated minimum of 144 hours per year (29 CFR 29.5(b)(4)).

CATEGORY #	CATEGORY NAME	OJL HOURS	RI HOURS
1.00-3.00	Core Curriculum	32	96
11.01	Health and Safety Awareness for the Tradeshow Worker	168	32
11.02	Introduction to the Tradeshow Craft/General Contractor Decorating	600-1200	96
11.03	Display Preparation, Installation, and Dismantling; Sign Hanging and Rigging	600-1200	96
11.04	Floor Covering, Materials Handling, and Installation	575-1025	80
11.05	Freight and Materials Handling	575-1025	80
		2550-4650	480

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
	1.0-3.0		Core Curriculum	32	96
11.01	TDS	9000-9099	Health and Safety Awareness for the Tradeshow Worker	168	32
			Course Code and Course Name	Hours	Months Valid
			TDS 9001-9099 Not Yet Assigned		N/A
11.02	TDS	9100-9199	Introduction to the Tradeshow Craft/General Contractor Decorating	600-1200	96
			Course Code and Course Name	Hours	Months Valid
			TDS 9100 Tradeshow Basics <i>(used to be TDS 9000)</i>	8	N/A
			TDS 9101 Power Tools <i>(used to be TDS 9004)</i>	8	N/A
			TDS 9102 Decoration Tools and Contractor Equipment for the Tradeshow Worker	1	N/A
			TDS 9103 Tradeshow Decoration Paperwork	2	N/A
			TDS 9104-9199 Not Yet Assigned		
11.03	TDS	9200-9299	Display Preparation, Installation, and Dismantling; Sign Hanging and Rigging	600-1200	96
			Course Code and Course Name	Hours	Months Valid
			TDS 9200 Carpet Installation for Trade Shows <i>(used to be TDS 9001)</i>	8	N/A
			TDS 9201 Extruded Metals <i>(used to be TDS 9003)</i>	8	N/A
			TDS 9202 Showsite Graphics <i>(used to be TDS 10)</i>	8	N/A
			TDS 9203 Tradeshow and Sign Rigging <i>(used to be TDS 9008)</i>	8	N/A
			TDS 9204 Ground Rigging <i>(used to be TDS 9009)</i>	4	N/A
			TDS 9205 Custom Exhibits <i>(used to be TDS 9007)</i>	8	N/A
			TDS 9206-9299 Not Yet Assigned		
11.04	TDS	9300-9399	Floor Covering, Materials Handling, and Installation	575-1025	80
			Course Code and Course Name	Hours	Months Valid
			TDS 9300 Floor Layout <i>(used to be TDS 9005)</i>	8	N/A
			TDS 9301-9399 Not Yet Assigned		

STD CAT #	COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	OJL HRS	RI HRS
11.05	TDS	9400-9499	Freight and Materials Handling	575-1025	80
Course Code and Course Name				Hours	Months Valid
TDS 9400 Freight Handling (<i>used to be TDS 9006</i>)				32	N/A
TDS 9401-9499 Not Yet Assigned					
				2550-4650	480

Trade Show Worker Competencies

This table identifies the course competencies that the Tradeshow Worker apprentice will successfully complete.

	On-the-Job Learning (OJL) – 168 hours	Related Instruction (RI) – 32 hours
11.01 Health and Safety Awareness	<ul style="list-style-type: none"> • Don (put on), doff (remove), inspect, and maintain the proper PPE that should be worn during drywall finishing including, but not limited to head, face, eyes, ears, hands, body, feet, respiratory. • Perform a job analysis for safe working conditions: <ul style="list-style-type: none"> • Attend pre-job safety meetings • Adhere to site specific safety rules and federal regulations • Observe Vessel Entry/Confined Space regulations • Read and interpret MSDS • Establish and maintain a safe working perimeter • Safely demonstrate the proper use and maintenance of tradeshow tools and equipment. • Maintain clean work areas (housekeeping). • Store, handle, and transport tools, equipment and materials properly. • Identify the locations of First Aid and Fire Equipment. • Demonstrate safe work practices for erecting and dismantling scaffolds, including: pre-planning, inspecting scaffold components, load capacity, platform construction, access requirements, and fall protection. • Demonstrate a pre-inspection and the safe operation of an aerial lift. • Describe and demonstrate the proper use of various types of personal fall protection equipment. • Describe and demonstrate the steps of ladder safety, including: selection, inspection, set-up, safe techniques and proper maintenance and storage. • Demonstrate and describe the procedures for personally fitting and adjusting, and mounting and dismounting stilts. 	<ul style="list-style-type: none"> • Recognize the important areas of OSHA in general terms. • Identify the Safety Regulations as they apply to safe work practices in the tradeshow worker trade with emphasis on: <ul style="list-style-type: none"> • Identification of safety hazards (unsafe conditions) • Proper handling of materials, including hazardous • Maintenance and safe operation of tools • PPE • Describe the precautions that must be followed when using flammable liquids and adhesives. • Explain what a Material Safety Data Sheet (MSDS) is, its purpose and limitation. • Describe the role of employer, supplier, and worker in the education of workers. • Outline emergency procedures and how to obtain assistance for injured workers. • Describe the proper technique (ergonomics) for lifting and transporting tradeshow materials. • Identify safety requirements for erecting and dismantling scaffolds, including: pre-planning, inspecting scaffold components, calculating load capacity, platform construction, access requirements, and fall protection. • Identify the different types of aerial lifts and their related safety rules and precautions. • Describe potential fall hazards in the workplace. • Describe the different types of ladders and the conditions under which they are used. • Given illustrations or verbal clues, distinguish between a proper and improper workplace set-up with regard to hazards, safety equipment and stilt selection.

11.0 TRADE SHOW WORKER, CONTINUED

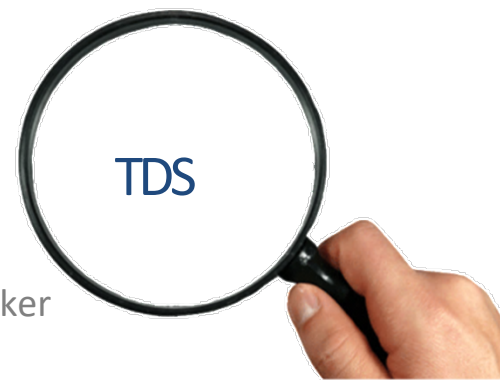
INTRODUCTION TO THE TRADE SHOW CRAFT/GENERAL CONTRACTOR DECORATING		
	On-the-Job Learning (OJL) – 600 hours	Related Instruction (RI) – 96 hours
11.02	<ul style="list-style-type: none"> • Demonstrate the characteristics of a professional Tradeshow Worker, including: <ul style="list-style-type: none"> • Exhibit suitable appearance and personal hygiene. • Exhibit proper attitude and behavior on the job site, including private residences and other occupied buildings. • Deal with difficult customers in a professional and courteous manner. • Interpret written and verbal instructions. • Recognize the importance of cooperation and interaction with related trades on a job site. • Demonstrate the ability to follow specific work place protocol and procedures. • Demonstrate proper operation of craft specific tools. • Demonstrate math applications relating to Tradeshow jobs. • Demonstrate the use of floor symbols. • Accurately read a delivery work order and drop sheet, and deliver the correct items to the correct place. • Demonstrate the proper setup and assembly order of all display components, such as pipe and drape, carpet, tables and counters. • Dismantle booth stock and demonstrate proper packing procedures for: <ul style="list-style-type: none"> • Pipes and drapes • Tables and counters • Carpet and showcases • Peg-Board™ and tack board • Demonstrate proper interpretation of work orders and delivery lists. • Demonstrate the use of line tape during floor layout. 	<ul style="list-style-type: none"> • Describe the various jobs of a Tradeshow worker. • Identify and describe the various tools commonly used in the Tradeshow craft. • Define terminology used in the Tradeshow craft. • Describe the steps involved in planning, installing, and dismantling a Tradeshow, including all forms and paperwork. • Identify the major players on a Tradeshow jobsite. • Describe the role of deco in the Tradeshow craft. • Explain the proper procedures for operating, handling and organizing equipment. • Define the responsibility of a trade show worker to “stay on the job until finished”. • Identify symbols on a floor plan and understand their meaning. • Describe the flow and order of work from delivery to pickup. • Describe repairing vs. replacing defective equipment before the show opens with regard to: <ul style="list-style-type: none"> • Time to replace • Effort to replace • Ability to replace • Describe floor marking procedures and how to locate and interpret the marks on a display floor. • Identify the methods and tools used for marking the trade show floor, including reading plans, working in teams, communicating; line tape, 300’ tape, scale ruler, chalking marks. • Describe the proper use of line tape.

11.0 TRADE SHOW WORKER, CONTINUED

11.03 DISPLAY PREPARATION, INSTALLATION, AND DISMANTLING; SIGN HANGING AND RIGGING		
	On-the-Job Learning (OJL) – 600 hours	Related Instruction (RI) – 96 hours
	<ul style="list-style-type: none"> • Demonstrate the proper use of safety equipment when erecting and dismantling displays. • Show the proper selection and use of tools for use on different types of displays. • Demonstrate the proper order of installation for a given display. • Demonstrate the ability to clean and condition all display graphics and displays. • Demonstrate the procedures for dismantling, packing, and storing displays. • Demonstrate floor marking and table skirting. • Demonstrate booth set-up for various display configurations. 	<ul style="list-style-type: none"> • Identify and describe types of displays and lightweight portable systems. • Describe the procedures and proper tools used to erect and dismantle most displays and portable systems. • Identify guidelines for installing and dismantling portable and pop-up displays. • Describe the proper procedures for packing and storing displays. • Identify the designations for the four basic post structures for systems. • Identify the proper order of installation. • Describe the cleaning and conditioning of display and graphics components. • Describe strategies used to configure oddly shaped display rooms.
11.04 FLOOR COVERING, MATERIALS HANDLING AND INSTALLATION		
	On-the-Job Learning (OJL) – 300 hours	Related Instruction (RI) – 80 hours
	<ul style="list-style-type: none"> • Demonstrate proper placement of carpet and padding. • Demonstrate various methods for installing carpet for a Trade Show. • Demonstrate the proper sequence and method to stretch and tape aisle carpet. • Demonstrate the proper techniques to safely remove and store aisle carpet. 	<ul style="list-style-type: none"> • Identify the different types of carpet and padding used for trade shows. • Define Visqueen® and when to use it. • Identify and describe the function of all tools and equipment necessary for carpet installation. • Describe placement of carpets and padding. • Describe the methods used in carpet installation, such as heat seaming, double face tape, etc. • Describe proper care/damage avoidance in dealing with phone and computer lines. • Describe carpet layout in various designs, including booth, aisle, inline, and island configurations.

11.0 TRADE SHOW WORKER, CONTINUED

11.05	FREIGHT AND MATERIALS HANDLING	
	On-the-Job Learning (OJL) – 300 hours	Related Instruction (RI) – 80 hours
	<ul style="list-style-type: none">• Interpret and complete paperwork involved in handling freight.• Demonstrate the principles of good ergonomics when lifting, handling, and performing repeated job tasks.• Demonstrate the proper use of motorized mechanical aides in handling Tradeshow freight.• Demonstrate proper manual lifting techniques for handling Tradeshow freight and materials.	<ul style="list-style-type: none">• Explain the role of freight with regard to Tradeshows.• Differentiate between the right time to use manual methods and machine methods for handling freight.• Describe the various tools used when lifting and moving freight, including dollies, hand trucks, J-bars, and pallet jacks.• Identify the proper sequence of processes performed when unloading freight.• Describe proper procedures when working inside of trucks and trailers.• Describe sources of injuries when performing manual lifting.• Describe ways to prevent injuries during lifting and handling.• Explain ways to eliminate hazards that may lead to injuries when using forklifts, cranes and slings/rigging.



TradeShow Worker Course Description

Health and Safety Awareness for the Tradeshow Worker

COURSE

DESCRIPTION

**TDS 9001-9099 Not Yet
Assigned**

Hour/s: XX

XXX

Introduction to the Tradeshow Craft/General Contractor Decorating

COURSE

DESCRIPTION

**TDS 9100 Tradeshow
Basics**

Hour/s: 8

Learn the basics of the Trade Show Industry such as floor marking, table skirting, carpet layout and booth set-ups and acquire the safety skills required while working on and off the show site floor.

Online Quizzes --

<http://www.exhibitoronline.com/exhibitor magazine/exhibitorquiz/history.asp>

TDS 9101 Power Tools

Hour/s: 8

This Power Tools class consists of an 8-hour day. A maximum of 15 students and 3 instructors gives us a 5 to 1 ratio, which we strictly adhere to. Approximately 3 1/2 hrs. of classroom instruction on Routers, Circular Saws and Blade Kerfs, Jig Saws, Reciprocating Saws, Hole saws, Drill bits and safety of all tools. The remaining time is spent in groups learning hands-on techniques such as drilling Plexi-glass, routing Plexi-glass, safe use of Hole Saw, causes and avoidance of saw kickbacks.

**TDS 9102 Decoration
Tools and Contractor
Equipment for the
Tradeshow Worker**

Hour/s: 1

This course will introduce you to the decoration portion of tradeshow, the essential hand tools and how to use them in tradeshow decoration, and standard and specialty contractor supplied decoration equipment.

**TDS 9103 Tradeshow
Decoration Paperwork**

Hour/s: 2

This course introduces students to the paperwork involved in the Tradeshow Decoration industry. Students will gain a basic understanding of how that paperwork is used for shipping and delivery and specifically how floorplans are used to ensure products arrive at their correct destinations.



COURSE**DESCRIPTION**

**TDS 9104-9199 Not Yet
Assigned**

Hour/s: XX

XXX

Display Preparation, Installation, and Dismantling; Sign Hanging and Rigging

COURSE**DESCRIPTION**

**TDS 9200 Carpet
Installation for Trade
Shows**

Hour/s: 8

This lesson will help students identify and distinguish between the tools and equipment used for installing carpet at a trade show. Discussions will include the use and purpose of any specialty tools required for particular trade show carpeting work. Emphasis will be placed on the proper use and handling of the tools to not only insure safety but also to make the job easier, require less installation time, and aim to standardize every installation.

**TDS 9201 Extruded
Metals**

Hour/s: 8

This class has been developed to teach the novice tradeshow employee the basics of extruded metals. This class has been designed as an introductory class that will cover: extruded metal terms, several of the extruded metal systems, specialized tools, extruded metal parts and sizes, fundamental building techniques, task assignment, related paperwork, troubleshooting, cleaning, and safety. Upon completion of this class the student should have a good working knowledge of extruded metals from task assignment to job completion.

**TDS 9202 Showsite
Graphics**

Hour/s: 8

This course will introduce you to the decoration portion of tradeshow, the essential hand tools and how to use them in tradeshow decoration, and standard and specialty contractor supplied decoration equipment.

**TDS 9203 Tradeshow
and Sign Rigging**

Hour/s: 8

This course discusses the safety, OSHA / ANSI standards, liability, types of signs, crew size, components, applications, and removal.

COURSE**DESCRIPTION****TDS 9204 Ground Rigging**

Hour/s: 4

This course instructs ground riggers on how to maintain safe perimeters underneath work and around aerial work platforms, assemble rigging on the ground, attach gear and assemblies to lines, mark points on the floor and to make attachments to lifting frames and trusses. Additionally, a ground rigger will learn situational awareness, good rope skills, the ability to work in varying environments, how to identify rigging equipment, rigging plots and floor markings as well as good communication skills.

TDS 9205 Custom Exhibits

Hour/s: 8

This class focuses on Double Deck Steel Structures. Topics include Hearing protection, Set-up, Forklift & Genie Lift usage, and safe work practices. This is a 2-day class. You must attend the 2 days consecutively. Prerequisite: You need to have taken a 2-day pre-custom I&D class that covers blueprint reading and safety.

TDS 9206-9299 Not Yet Assigned

Hour/s: XX

XXX

Floor Covering, Materials Handling, and Installation**COURSE****DESCRIPTION****TDS 9300 Floor Layout**

Hour/s: 8

The first job at a show site is to transfer the floor plan to the floor of the facility where the show is being held. This has to be accomplished before you can unload any equipment. A floor plan shows how the floor space is to be divided into a basic framework according to the wants and needs of the association organizing the show. Typically, a designer, or a draftsman employed by the general contractor, will draw the floor plan. Before we get into the specifics of how to lay out the floor from a specific plan, perhaps we should discuss some blueprint basics.

TDS 9301-9399 Not Yet Assigned

Hour/s: XX

XXX

Freight and Materials Handling

COURSE	DESCRIPTION
TDS 9400 Freight Handling	Hour/s: 32 Students will learn a 5-step process for handling both conventional freight and air freight. Discussions, demonstrations and practical exercises will teach students manual lifting techniques as well as the proper and safe use of mechanical motorized lifting equipment, i.e., forklifts, cranes, slings and rigging. Students will gain exposure and practice in identifying and accurately completing records, i.e., bill of lading, material handling forms, air freight bills, empty crate manifests, and truck logs for all freight being transported in and out of job sites.
TDS 9401-9499 Not Yet Assigned	Hour/s: XX XXX

Customized Training

The following programs are customized course numbers for the International, District Councils, and languages:

ABBREVIATION	COURSE #	TRADE and DESCRIPTION
CAN	1000-7000	Canadian courses
C(DC No.)	1000-7000	Classroom Training – <i>C plus District Council No. (e.g. C57)</i> <i>Note: There is no course listing on this document. To view the courses and their descriptions, use the Course Catalog feature of the LMS.</i>
FRE	1000-7000	French courses
FTI	1000-7000	Classroom training conducted at the International Training Center, Hanover Requirements for COE-accredited Associate Instructor and Master Instructor programs
SPN	1000-7000	Spanish courses



Canadian Classes



Overview

The International Finishing Trades Institute (iFTI) LMS offers online classes specific to the Canadian regulations and training requirements. The course code is CAN.

Based on the OIFSC Course Calendar, Canadian courses will have the following codes and course numbering:

Category	Course Number
Introduction to the Union	1000-1099
Health and Safety	1100-1199
Leadership	1200-1299
Glass and Metal	5000-5999
Paint	7000-7999

NOTE: The course numbers correspond to the existing trade course codes in the LMS.

Course List

The IUPAT/iFTI Program of Study for Canadian courses is outlined below.

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
CAN	1000-1099	Introduction to the Union		
		Course Code and Course Name	Hours	Months Valid
		CAN 100 Code of Conduct* (Canada)	.5	N/A
		CAN 101-109 Not Yet Assigned	N/A	N/A
		CAN 110C First Aid/CPR/AED (Canada)	16	24
		CAN 111-168 Not Yet Assigned	N/A	N/A
		CAN 169 Mould Awareness* (Canada)	.5	N/A
		CAN 170-199 Not Yet Assigned	N/A	N/A
		CAN 1000 Not Yet Assigned	N/A	N/A
		CAN 1001 Harassment Discrimination and Workplace Violence Prevention* (Canada)	.5	N/A
		CAN 1002-1099 Not Yet Assigned	N/A	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
CAN	1100-1199	Health and Safety		
		Course Code and Course Name	Hours	Months Valid
		CAN 1100C WHMIS* (Canada)	.5	12
		CAN 1101C Worker Health and Safety in 4 Steps (Canada)	1	Permanent
		CAN 1102C Working at Heights (Canada)	8	36
		CAN 1103-1107 Not Yet Assigned	N/A	N/A
		CAN 1108 Ladder Safety* (Canada)	4	N/A
		CAN 1109 Health and Safety for Small Business* (Canada)	1	N/A
		CAN 1110 Due Diligence* (Canada)	1	N/A
		CAN 1111 Confined Spaces* (Canada)	1	N/A
		CAN 1112-1142 Not Yet Assigned	N/A	N/A
		CAN 1143C Power Elevated Work Platforms (PEWP) (Canada)	8	36
		CAN 1144-1156 Not Yet Assigned	N/A	N/A
		CAN 1157C Hoisting and Rigging (Canada)	16	36

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
CAN	1100-1199	Health and Safety		
		Course Code and Course Name	Hours	Months Valid
		CAN 1158-1161 Not Yet Assigned	N/A	N/A
		CAN 1162 Safety Orientation* (Canada)	.5	N/A
		CAN 1163 Not Yet Assigned	N/A	N/A
		CAN 1164 Bloodborne Pathogens* (Canada)	1	N/A
		CAN 1165-1199 Not Yet Assigned	N/A	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
CAN	1200-1299	Leadership		
		Course Code and Course Name	Hours	Months Valid
		CAN 1200 Not Yet Assigned	N/A	N/A
		CAN 1201 Supervisor Health and Safety Awareness in Five Steps (Canada)	1	N/A
		CAN 1202 Supervisor Training Program (STP) (Canada)	20	N/A
		CAN 1203-1210 Not Yet Assigned	N/A	N/A
		CAN 1211 Health and Safety for Managers and Supervisors* (Canada)	9	N/A
		CAN 1203-1207 Not Yet Assigned	N/A	N/A
		CAN 1208 Labor Law in the Construction Industry (Canada)	40	N/A
		CAN 1209-1212 Not Yet Assigned	N/A	N/A
		CAN 1215 Primer on Privacy* (Canada)	.5	N/A
		CAN 1216-1243 Not Yet Assigned	N/A	N/A
		CAN 1244C IHSA Basics for Supervisors (Canada)	16	N/A
		CAN 1245-1251 Not Yet Assigned	N/A	N/A
		CAN 1252 Safe Driving* (Canada)	2.25	N/A
		CAN 1253 Corruption of Foreign Public Officials Act* (Canada)	1	N/A
		CAN 1254 Anti-Spam Law* (Canada)	.5	N/A
		CAN 1255-1268 Not Yet Assigned	N/A	N/A
		CAN 1269 Diversity in the Workplace* (Canada)	1	N/A
		CAN 1270-1299 Not Yet Assigned	N/A	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
CAN	5000-5999	Glass and Metal		
		Course Code and Course Name	Hours	Months Valid
		CAN 5000-5432 Not Yet Assigned	N/A	N/A
		CAN 5433C Glass Manipulator (Canada)	8	36
		CAN 5434-5901 Not Yet Assigned	N/A	N/A
		CAN 5902 Glazier Pre C of Q (Canada)	4	N/A
		CAN 5903-5999 Not Yet Assigned	N/A	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
CAN	7000-7999	Paint		
		Course Code and Course Name	Hours	Months Valid
		CAN 7000-7559 Not Yet Assigned	N/A	N/A
		CAN 7600 Introduction to Wallcoverings (Canada)	40	N/A
		CAN 7601-7699 Not Yet Assigned	N/A	N/A



Canadian Course **Description**

Health and Safety

COURSE	DESCRIPTION
CAN 100 Code of Conduct* (Canada)	<p>Hour/s: .5</p> <p>This Code of Conduct online training course provides a model Code of Conduct that explains the most important parts of the Code. A company that already has a Code in place can customize and use this course to communicate that policy to its employees and for a company that has not yet implemented a Code, this course provides a turn-key solution that can be put in place quickly.</p>
CAN 101-168 Not Yet Assigned	Hour/s: X
CAN 110C First Aid/CPR/AED (Canada)	<p>Hour/s: 16</p> <p>The training covers first aid and cardiopulmonary resuscitation (CPR). The participants will have the knowledge and skills needed to provide medical care in emergencies, provide CPR to adults, children, and infants, and be able to identify when and how to use an AED (Certification Period: 24 months).</p>
CAN 111-168 Not Yet Assigned	Hour/s: X
CAN 169 Mould Awareness* (Canada)	<p>Hour/s: .5</p> <p>Mould can be a serious workplace issue and can be hazardous to our health. In this module we define moulds, examine the health effects of mould exposure, review the duties of employers under current legislation, and outline methods of mould prevention and control.</p> <p><i>With French version in the LMS (FRE 169 Sensibilisation aux moisissures*)</i></p>
CAN 170-1099 Not Yet Assigned	Hour/s: X
CAN 1000 Not Yet Assigned	Hour/s: X
CAN 1001 Harassment Discrimination and Workplace Violence Prevention* (Canada)	<p>Hour/s: .5</p> <p>Every work environment should be supportive of the productivity, dignity and self-esteem of every employee. This means ensuring that your work environment is free from harassment, discrimination and violence. This online training course applies to all employees.</p>

COURSE	DESCRIPTION
CAN 1002-1099 Not Yet Assigned	Hour/s: X
CAN 1100C WHMIS* (Canada)	<p>Hour/s: .5</p> <p>In this course, we will describe the Workplace Hazardous Materials Information System – WHMIS – and how to affectively apply it at your work.</p> <p>WHMIS 2015 is aligned with the new worldwide standard, the Global Harmonization System of Classification and Labelling of Chemicals (or GHS), and we will also describe this system’s rules and formats for managing hazardous products.</p> <p>The systems described in this training are required federally and enforced in each province or territory by jurisdictional labour ministries.</p> <p><i>With French version in the LMS (FRE 1100C SIMDUT 2015* (WHMIS French))</i> <i>With Spanish version in the LMS (SPN 1131C WHMIS* (Spanish))</i> <i>With Ukrainian version in the LMS (UKR 1100C WHMIS* (Ukrainian))</i></p>
CAN 1101C Worker Health and Safety in 4 Steps (Canada)	<p>Hour/s: 1</p> <p>This training introduces workers to the Occupational Health and Safety Act. It focuses on the health and safety rights and responsibilities of workers, supervisors, and employers. It also serves as a general introduction to workplace health and safety (Certification Period: Permanent).</p> <p>https://www.labour.gov.on.ca/english/hs/elearn/worker/foursteps.php</p> <p><i>With French version in the LMS (FRE 1101 La sensibilisation e la sante et la securite*)</i></p>
CAN 1102C Working at Heights (Canada)	<p>Hour/s: 8</p> <p>The training requirement is for workers on construction projects who use any of the following methods of fall protection: travel restraint systems, fall restricting systems, fall arrest systems, safety nets, and work belts or safety belts (Certification Period: 36 months).</p>
CAN 1103-1107 Not Yet Assigned	Hour/s: X

COURSE**DESCRIPTION****CAN 1108 Ladder Safety*
(Canada)**

Hour/s: 4

Topics covered in this course include the Types of ladders, Ladder maintenance & inspection, Safe ladder use, Scaffold hazards, Scaffold types and selection, Erecting & dismantling scaffolds, Stability of scaffolds, and Proper scaffold use.

With French version in the LMS (FRE 1108 Les échelles en toute sécurité)*

**CAN 1109 Health and Safety for
Small Business* (Canada)**

Hour/s: 1

Successful businesses of all sizes know that occupational health and safety is important to overall performance. Workplace injuries and illnesses have a direct effect on your company's bottom line, and the ability to operate safely is essential to building a productive, cost-effective organization.

In this course, we will review the business case for workplace health and safety, then go on to outline key health and safety issues that all small business owners should be aware of.

**CAN 1110 Due Diligence*
(Canada)**

Hour/s: 1

It is commonly referred to as the 'General Duty' clause in all provincial Health and Safety legislation. To exercise Due Diligence means that employers must take all reasonable precautions under the circumstances to prevent injuries or accidents in the workplace. This module will provide a clear understanding of the legal requirements necessary for compliance as well as the implications of non-compliance.

*With French version in the LMS - FRE 1110 Diligence Raisonnée**

**CAN 1111 Confined Space
Entry* (Canada)**

Hour/s: 1

In this course, we will discuss what confined spaces are and are not; developing confined space programs, including hazard assessment and control measures, confined space team member responsibilities and safe work practices; and the requirements for confined space entry permits. This course is based on the regulations in Atlantic Canada.

**CAN 1112-1142 Not Yet
Assigned**

Hour/s: X

COURSE	DESCRIPTION
CAN 1143C Power Elevated Work Platforms (PEWP) (Canada)	<p>Hour/s: 8</p> <p>This one-day course on the safe use of Elevated Work Platforms requires on-site familiarity (Certification Period: 36 months).</p>
CAN 1144-1156 Not Yet Assigned	Hour/s: X
CAN 1157C Hoisting and Rigging (Canada)	<p>Hour/s: 16</p> <p>This course applies to any worker responsible for supervising or inspecting rigging and hoisting operations. Upon completing this course, participants will receive a 3-year certification in Hoisting and Rigging.</p>
CAN 1158-1161 Not Yet Assigned	Hour/s: X
CAN 1162 Safety Orientation* (Canada)	<p>Hour/s: .5</p> <p>Each year accidents cause millions of people to suffer painful injuries and result in over a billion dollars worth of damage. In fact, in this country someone suffers an accidental injury every four seconds. Accidents cost almost 90 billion dollars a year in medical bills, lost wages, and lost production time. This module will help you to develop safety awareness, and help you to understand how your attitude can be a critical factor in accident prevention.</p>
CAN 1163 Not Yet Assigned	<i>Hour/s: X</i>
CAN 1164 Bloodborne Pathogens* (Canada)	<p>Hour/s: 1</p> <p>Exposure to bloodborne diseases is a serious concern for employees in many sectors of the workforce. Bloodborne pathogens are the disease-causing microorganisms found in blood, as well as in human blood components and products. This course will show you how exposure to bloodborne pathogens occurs and provide guidelines for protecting yourself and others.</p>
CAN 1165-1196 Not Yet Assigned	

COURSE**DESCRIPTION**

**CAN 1197 Fall Prevention Fall
Arrest* (Canada)**

Hour/s: .5

Falls are one of the leading causes of injuries and deaths in construction and general industry. Fall prevention and fall protection measures can greatly reduce the risk of injury or death. Whenever workers are exposed to falling hazards, the employer must evaluate the hazards and develop a plan to control them. This course describes the various fall prevention methods for working at heights. This course is based on the regulations in Atlantic Canada.

**CAN 1198-1199 Not Yet
Assigned**

Leadership



COURSE	DESCRIPTION
CAN 1200 Not Yet Assigned	Hour/s: X
CAN 1201 Supervisor Health and Safety Awareness in Five Steps (Canada)	<p>Hour/s: 1</p> <p>The training introduces supervisors to the Occupational Health and Safety Act. It focuses on workers, supervisors, and employers' health and safety rights and responsibilities. It also serves as a general introduction to workplace health and safety. This program meets the basic occupational health and safety awareness training requirements under Ontario Regulation 297/13.</p>
CAN 1202 Supervisor Training Program (STP) (Canada)	<p>Hour/s: 20</p> <p>It is appropriate for newer supervisors/foremen to broaden their understanding of the responsibilities of their job and to provide tools and techniques to better fulfill those responsibilities. It is appropriate for experienced supervisors to update their understanding of supervision, to strengthen their skills in traditional areas, and to develop new skills in emerging areas.</p>
CAN 1203-1207 Not Yet Assigned	Hour/s: X
CAN 1208 Labor Law in the Construction Industry (Canada)	<p>Hour/s: 40</p> <p>Labor law provides special provisions applicable to the construction industry because of the unique nature of employment in construction. This construction labor law course will be taught by experienced building trades legal counsel specializing in construction labor law to better prepare participants to make informed decisions on organizing, collective bargaining and when to seek legal counsel.</p>
CAN 1209-1210 Not Yet Assigned	Hour/s: X

COURSE**DESCRIPTION****CAN 1211 Health and Safety for Managers and Supervisors* (Canada)**

This Health and Safety for Managers and Supervisors in Canada online training course explores safeguarding the health and safety of employees in the workplace. Through this 15-module course, supervisors and managers will learn about the health and safety requirements for their workplace and how to develop a program around it. They will also learn about common hazards and injuries that plague many workplaces and workers as well as some that are specialized, such as hazards of working with chemicals.

With French version in the LMS (FRE 1211 Sante et Securite pour les Gestionnaires et les Superviseurs)*

CAN 1212-1214 Not Yet Assigned

Hour/s: X

CAN 1215 Primer on Privacy* (Canada)

Hour/s: 5

All organizations that collect, use or disclose personal information in the course of a commercial activity will be covered by the Personal Information Protection and Electronic Documents Act (PIPEDA). PIPEDA is Canada's legislative response to the growing tide of public opinion against the misuse of personal information by the private sector. The Act has a broad scope and impacts all types of organizations in the private sector.

With French version in the LMS (FRE 1215 La Protection des Renseignements Personnels)*

CAN 1216-1243 Not Yet Assigned

Hour/s: X

CAN 1244C IHSA Basics for Supervisors (Canada)

Hour/s: 16

Infrastructure Health and Safety Association (IHSA) teaches the basics of supervision (Certification Period: Permanent).

CAN 1245-1251 Not Yet Assigned

Hour/s: X

CAN 1252 Safe Driving* (Canada)

Hour/s: 2.25

The Safe Driving course is designed to assist drivers of all ages to understand many of the factors which can help ensure a safe driving experience in most circumstances. In this four-part program, you will learn key information that, as a driver, you must know and follow to keep yourself, family members, co-workers, and the public safe.

COURSE

DESCRIPTION

CAN 1253 Corruption of Foreign Public Officials Act* (Canada)

The Corruption of Foreign Officials Act is Canadian legislation designed to prevent the bribery of foreign officials. This law was implemented to meet Canada's obligations under the OECD Convention on Combating Bribery of Foreign Officials in International Business Transactions.

With French version in the LMS (FRE 1253 Loi sur la Corruption d Agents Publics Etrangers)*

CAN 1254 Anti-Spam Law* (Canada)

Hour/s: .5

The purpose of Canada's anti-spam law is to promote the efficiency and adaptability of the Canadian economy by regulating commercial conduct that discourages the use of electronic means to carry out commercial activities. This module will provide you with an overview of Canada's anti-spam law and show you how to develop an anti spam compliance program at your organization.

With French version in the LMS (FRE 1254 La Loi antipourriel)*

CAN 1255-1268 Not Yet Assigned

Hour/s: X

XXX

CAN 1269 Diversity in the Workplace* (Canada)

Hour/s: 1

Diversity in the Workplace serves as a foundational layer for team members and management to examine the ways in which identity affects workplace dynamics and productivity. Through the use of evidence-based tools and techniques, participants will uncover the value of facilitating an inclusive work environment.

CAN 1270-1299 Not Yet Assigned

Hour/s: X

XXX

COURSE	DESCRIPTION
CAN 5900-5432 Not Yet Assigned	Hour/s: X XXX
CAN 5433C Glass Manipulator (Canada)	Hour/s: 8 The course will teach the class how to use the manipulator and how to handle glass (Certification Period: 36 months).
CAN 5434-5901 Not Yet Assigned	Hour/s: X XXX
CAN 5902 Glazier Pre C of Q (Canada)	Hour/s: 4 This one-night course covers essential topics, providing insights into what to expect and equipping participants with the knowledge and confidence. Certificate of qualification prep.
CAN 5903-5999 Not Yet Assigned	Hour/s: X XXX

COURSE	DESCRIPTION
CAN 7000-7559 Not Yet Assigned	Hour/s: X XXX
CAN 7600 Introduction to Wallcoverings (Canada)	Hour/s: 40 The residential and commercial wallcovering program covers the following essentials: proper use of measuring tape, level, brush, and roller; preparation of wall surfaces; application of wallpaper paste and wallcovering; techniques for matching patterns, trimming around frames, baseboards, and other obstacles, including overlapping and double-cutting for commercial wallcoverings; and efficient methods for removing existing wallcoverings with minimal wall damage.
CAN 7601-7699 Not Yet Assigned	Hour/s: X XXX



International FTI Classes

iFTI Program Description

The IUPAT and its signatory employers established the FTI to provide ongoing education and training for all our union members. Our mission is to continue to set the standard of excellence in the many trades our members represent.



Program Scope

The International Finishing Trades Institute (iFTI) offers Train-the-Trainer (TTT) classes held at the International Training Center in Hanover, Maryland.

The categories include:

- Instructional Techniques and Applications
- Health and Safety
- Leadership
- Coating Application Specialist (CAS)
- Floor Coverer
- Glazier
- Hydro Blaster/Vacuum Technician
- Painter-Decorator and Finisher

COE-Accredited Programs

Accreditation is a status granted to an educational institution or program that has been found to meet or exceed stated criteria of educational quality and student achievement. Accreditation by COE is viewed as a nationally-honored seal of excellence for occupational education institutions and denotes honesty and integrity. The International Finishing Trades Institute was accredited by the Council on Occupational Education (<https://council.org/>).



We have two accredited programs: Associate Instructor and Master Instructor.



Associate Instructor Program

Description

The Instructor Training Program is a course of study designed solely for individuals employed to train IUPAT members by affiliated local unions and apprenticeship programs. The Instructor Training Program is delivered in traditional classroom settings with a mixture of lecture and lab-type assignments. The courses for the Instructor Training Program are offered several times each year on the iFTI main campus located in Hanover, Maryland. If you are eligible, your transcript will be assigned an FTI 9997 FTI Associate Instructor Enrollment course. The program offers a certificate upon successful completion (FTI 9998C FTI Associate Instructor Graduation). The iFTI does not award degrees.

Required Courses

The International Finishing Trades Institute (iFTI) Associate Instructor Program consists of a total of **four (4) courses**. These courses include two rigorous teaching techniques classes plus one health and safety elective and one other elective of the member's choosing.

- FTI 1000 Introduction to Teaching Techniques for Adults
- FTI 1001 Teaching Techniques for Adults
- 1 Health and Safety Class:
 - FTI 1104C American Heart Association Heartsaver (or equivalent)
 - FTI 1109C OSHA 500/FTI 1110C OSHA 501
 - FTI 1119C OSHA 502
 - FTI 1114C OSHA 510/FTI OSHA 511
 - Or Canadian Equivalent
- 1 elective from the iFTI Course Listings (see next pages).



Master Instructor Program

Description

The COE- accredited Master Instructor Program, now offered by the International Finishing Trades Institute, sets a pathway for International Union of Painters and Allied Trades instructors to become certified instructors in skills and safety training.

Required Courses

The International Finishing Trades Institute (iFTI) Master Instructor Program consists of a total of ten (10) courses. These courses include:

- FTI 1000 Introduction to Teaching Techniques for Adults
- FTI 1001 Teaching Techniques for Adults
- FTI 1104C American Heart Association Heartsaver (or equivalent)
- FTI 1109C OSHA 500
- FTI 1110C OSHA 501 or FTI 1114C OSHA 510
- Four (4) electives from the FTI Course Listings (see next pages)
- FTI 9999C FTI Master Instructor Capstone (CERTIFICATION)

Successful graduates of the program will develop educational resources and administer training that support a culture of lifelong learning for union members working in the Finishing Industries. This brings IUPAT training to a new level not only for the benefit of union members who receive it from a certified instructor, but for the companies who employ IUPAT members as well.

At the end, students will have identified, researched, and designed a training module, or a body of research, that successfully addresses challenges they or their colleagues encountered in their local training centers.

FTI 9999C FTI Master Instructor Capstone (CERTIFICATION)

The iFTI Master Instructor Capstone is the final course an instructor will take prior to being awarded an iFTI Master Instructor program completion. This course begins with a three-day seminar at the iFTI in Hanover, Maryland where participants undertake and accomplish the following:

- Meet and partner with peers in their class.
- Learn the objectives and requirement to complete the course.
- Write their proposals and meet with the facilitator.

In the following months, participants follow set guidelines and scheduled electronic meetings with the facilitator, and develop their module or research piece.

The participants then return to the iFTI campus to give a 20-minute presentation of their work to their class and facilitator, followed by questions. The presentation, the supporting research and the writing are then evaluated by the iFTI Capstone Committee. The Capstone course must be completed in a 12-month period.

Those who meet all the standards of the course are certified as IUPAT Master Instructors, and will be officially and publicly recognized as a part of an elite corps of IUPAT trainers and educators in the United States and Canada. In addition to their new status as a master instructor, their course work to earn their certification has the potential to be used in IUPAT district councils across North America.

In addition to advancing the IUPAT training programs, the IUPAT Master Instructor Program will also raise the profile of the entire training and education network of the North America Building Trades Unions. Further making the case that an apprenticeship in the Building Trades is another choice for young men and women who not only seek a secondary education, but also a successful professional career.



Degree Program

Description

The International Finishing Trades Institute provides an opportunity for our members and staff to pursue an Associate's degree through Mountwest Community Technical College as well as a Bachelor's degree through SUNY Empire State College, Columbia Southern State College, or Rowan University. This is a great opportunity for members to advance in their career field and learn new skill sets all while continuing their day to days.

Individuals who are interested in the degree programs will need to request and review the packet that is sent from iftinternational@ifti.edu and complete each applicable form in its entirety including the required documents. In order to become a sponsored participant, members need to be instructors who are in good standing and enrolled in the iFTI Instructor program.

Associates Degree



**Also offers an MBA program*



COURSE ALPHA NUMERIC	CATEGORY NAME		
DEG 9000	Instructor and Degree Programs		
	Course Code and Course Name	Hours	Months Valid
	DEG 9000 SUNY Empire State College - Labor Studies Residency 1	40	N/A
	DEG 9001 SUNY Empire State College - Labor Studies Residency 2	40	N/A
	DEG 9002-9996 ---Not yet Assigned---		
	DEG 9006C Associate Degree	N/A	Permaner
	DEG 9997C Bachelor Degree	N/A	Permaner
	DEG 9998C Master Degree	N/A	Permaner
	DEG 9999C Doctorate Degree	N/A	Permaner

DOT Sessions

Description

The International Finishing Trades Institute (iFTI) offers sessions for Directors of Training (DOTs) to promote Health and Safety, discuss trade-specific initiatives, and improve leadership skills.

COURSE ALPHA		CATEGORY NAME	
NUMERIC			
DOT	Instructor and Degree Programs		
1000-9000			
Course Code and Course Name		Hours	Months Valid
DOT 1020 Cyber Security		2	N/A
DOT 1146 Heat Stress		2	N/A
DOT 1216 Peak Performance		2	N/A
DOT 123 Blame the Worker Safety Programs		2	N/A
DOT 172 OSHA Inspection Guidelines		2	N/A
DOT 2014 AMPP CCA Updates		2	N/A
DOT 5009 AGMT		2	N/A

iFTI Course List

The IUPAT/iFTI Program of Study for International iFTI courses is outlined below.

COURSE ALPHA NUMERIC		CATEGORY NAME	
FTI 1000	Instructional Techniques and Applications		
Course Code and Course Name		Hours	Months Valid
FTI 1000 Introduction to Teaching Techniques for Adults		40	N/A
FTI 1001 Teaching Techniques for Adults		40	N/A
FTI 1002 Teaching Techniques I (sunset - code no longer used)		40	N/A
FTI 1003 Teaching Techniques II (sunset - code no longer used)		40	N/A
FTI 1004 Teaching Techniques III (sunset - code no longer used)		40	N/A
FTI 1005 Vocational English as a Second Language (VESL)		32	N/A
FTI 1006 Survival of the Fittest for Instructors		32	N/A
FTI 1007 Teaching Union History (sunset - code no longer used)		32	N/A
FTI 1008 Sexual Harassment in the Workplace		16	N/A
FTI 1009 Green Building: The Basics of Sustainability		8	N/A
FTI 1010 Green Building: Interpreting Green Bid Specifications (sunset - code no longer used)		8	N/A
FTI 1011 Green Building: LEED Accredited Professional Examination Preparation (sunset - code no longer used)		16	N/A
FTI 1012 Directors of Training Seminar		24	N/A
FTI 1013 Administrative Techniques for Training Coordinators (sunset - code no longer used)		32	N/A
FTI 1014 Canadian Director of Training Seminar (sunset - code no longer used)		24	N/A
FTI 1015 Central Region Director of Training Seminar (code no longer used)		24	N/A
FTI 1016 Computer Applications (sunset - code no longer used)		32	N/A
FTI 1017 IUPAT History/Structure and Introduction to Computing Applications		40	N/A

COURSE ALPHA NUMERIC	CATEGORY NAME		
FTI 1000	Instructional Techniques and Applications, continued		
	Course Code and Course Name	Hours	Months Valid
	<i>FTI 1018 Eastern Region Director of Training Seminar (code no longer used)</i>	24	N/A
	<i>FTI 1019 Introduction to Power Point (sunset - code no longer used)</i>	40	N/A
	<i>FTI 1020 IT-101 Fundamentals of Computers (sunset - code no longer used)</i>	45	N/A
	<i>FTI 1021 English 111 (sunset - code no longer used)</i>	45	N/A
	<i>FTI 1022 Western Region Director of Training Seminar (sunset - code no longer used)</i>	24	N/A
	FTI 1023 Introduction to Computing Applications for Instructors	24	N/A
	FTI 1024 Computing Applications Level 2	24	N/A
	FTI 1025 Mentorship TTT	8	N/A
	FTI 1026 Google Classroom (sunset - code no longer used)	4	N/A
	<i>FTI 1027 Best Practices in Online Instruction (sunset - code no longer used)</i>	6	N/A
	FTI 1028 Experienced Instructor Refresher	20	N/A
	FTI 1029 Building Union Power TTT	8	N/A
	FTI 1030 IUPAT Member Empowerment Campaign	8	N/A
	FTI 1031-1038 ---Not yet Assigned---		
	<i>FTI 1039 IUPAT HQ Orientation (sunset - code no longer used)</i>	7	N/A
	FTI 1040 LMS Admin Workshop	16	N/A
	FTI 1041 IUPAT Respectful Workplace TTT	8	N/A
	FTI 1042-1099 ---Not yet Assigned---		

COURSE ALPHA NUMERIC	CATEGORY NAME		
FTI 1100	Health and Safety		
	Course Code and Name	Hours	Months Valid
	FTI 110-FTI 115---Not Yet Assigned	N/A	N/A
	FTI 116C American Red Cross First Aid/CPR/AED (CERTIFICATION)	24	N/A
	FTI 117-FTI 123---Not Yet Assigned	N/A	N/A
	FTI 124 Air Monitoring and Exposure Assessment (sunset - code no longer used)	3	N/A
	FTI 125-FTI 138---Not Yet Assigned	N/A	N/A
	FTI 139 OVERTON Rigger Level I Test Prep	20	N/A
	FTI 140-FTI 153---Not Yet Assigned	N/A	N/A
	FTI 154 Globally Harmonized System Hazard Communication (GHS Haz Com)	8	N/A
	FTI 155-FTI 165---Not Yet Assigned	N/A	N/A
	FTI 166 Protecting Workers from Mold (sunset - code no longer used)	3	N/A
	FTI 167---Not Yet Assigned	N/A	N/A
	FTI 168C OSHA 7505 Incident Investigation (CERTIFICATION)	8	N/A
	FTI 169-FTI 173---Not Yet Assigned	N/A	N/A
	FTI 174C HSI: First Aid and CPR (CERTIFICATION)	8	24
	FTI 175 Respiratory Protection (sunset - code no longer used)	3	N/A
	FTI 176-FTI 180---Not Yet Assigned	N/A	N/A
	FTI 181 Respiratory Protection TTT	16	N/A
	FTI 182-FTI 183---Not Yet Assigned	N/A	N/A
	FTI 184 OVERTON CCO Telehandler Certification Prep and TTT	40	N/A
	FTI 185 HSI Active Shooter Response	7	N/A
	FTI 186-FTI 193---Not Yet Assigned	N/A	N/A
	FTI 194 OVERTON Crane Signalperson Test Prep	16	N/A
	FTI 195-FTI 197---Not Yet Assigned	N/A	N/A
	FTI 198 Pandemic Resiliency TTT	24	N/A
	FTI 199---Not Yet Assigned	N/A	N/A
	FTI 1100 OSHA 7500 Introduction to Safety and Health Management	8	N/A
	FTI 1101C Confined Space Instructor (CERTIFICATION)	32	Permanent

COURSE ALPHA		CATEGORY NAME	
NUMERIC			
FTI 1100	Health and Safety, continued		
	Course Code and Name	Hours	Months Valid
	FTI 1102 Ergonomics in the Workplace	2	N/A
	FTI 1103 Hazwoper Instructor	40	N/A
	FTI 1104C American Heart Association Heartsaver (CERTIFICATION)	20	24
	FTI 1105C EPA RRP - Initial EPA Accredited Class (CERTIFICATION)	8	60
	FTI 1106C Lead Abatement and Silica for Instructors (CERTIFICATION)	40	Permanent
	FTI 1107C Lead Abatement Worker Train-the-Trainer (CERTIFICATION)	32	Permanent
	FTI 1108 Stair and Ladder Safety	8	N/A
	FTI 1109C OSHA 500	40	48
	FTI 1110C OSHA 501	32	48
	FTI 1111C OVERTON Mobile Elevated Work Platforms (MEWP) (CERTIFICATION)	32	36
	FTI 1112C Scaffold Competent Person CERTIFICATION)	24	36
	FTI 1113C American Heart Association Refresher (CERTIFICATION)	12	24
	FTI 1114C OSHA 510	32	48
	FTI 1115C CPWR HAZWOPER-LEAD-Asbestos Worker (CERTIFICATION) (sunset – code no longer used)	40	12
	FTI 1116C HAZWOPER TTT (CERTIFICATION)	40	Permanent
	FTI 1117C Lead Abatement Worker (CERTIFICATION) (sunset – code no longer used)	24	N/A
	FTI 1118C EPA RRP Refresher (CERTIFICATION)	8	60
	FTI 1119C OSHA 502	24	48
	FTI 1120C USACE Fall Protection (CERTIFICATION)	32	Permanent
	FTI 1121C Confined Space Worker (CERTIFICATION) (sunset – code no longer used)	16	Permanent
	FTI 1122C OSHA 5400 Standards for the Maritime Industry (sunset – code no longer used)	26	48
	FTI 1123C OSHA 5410 - Occupational Safety and Health Standards for the Maritime Industry (sunset – code no longer used)	35	48

COURSE ALPHA NUMERIC	CATEGORY NAME
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FTI 1100 Health and Safety, continued

Course Code and Name	Hours	Months Valid
<i>FTI 1124C Scaffold Instructor TTT (CERTIFICATION) (sunset – code no longer used)</i>	32	N/A
FTI 1125C OVERTON Mobile Crane Prep Course (CERTIFICATION)	32	?
FTI 1126C NCCCO Crane Signal Person (CERTIFICATION)	32	60
<i>FTI 1127 SSPC Proctor/Instructor Seminar (sunset – code no longer used)</i>	24	N/A
<i>FTI 1128C SSPC Lead Paint Safety Worker (CERTIFICATION) (sunset – code no longer used)</i>	8	Permanent
<i>FTI 1129 Infection Control Risk Assessment (ICRA) Awareness TTT (sunset – code no longer used)</i>	16	N/A
FTI 1130C NCCCO Rigger Level I Program (CERTIFICATION)	32	60
FTI 1131C Overton TRAINER AerScisForklift REFRESH (CERTIFICATION)	1	36
<i>FTI 1132C United Academy TTT Core 4 (CERTIFICATION) (sunset – code no longer used)</i>	32	36
<i>FTI 1133 Introduction to Chemical and Physical Properties of Hazardous Materials (sunset – code no longer used)</i>	2.5	N/A
FTI 1134C American Heart Association Heartsaver Master Instructor (CERTIFICATION)	32	24
FTI 1135C NCCCO Mobile Crane (CERTIFICATION)	48	60
<i>FTI 1136 United Academy Fall Protection TTT (sunset – code no longer used)</i>	32	N/A
<i>FTI 1137 Temporary Work Platforms Train-the- Trainer (Safway/Safespan) (sunset – code no longer used)</i>	24	N/A
FTI 1138C ICRA Worker Train-the-Trainer (CERTIFICATION)	24	Permanent
<i>FTI 1139C OVERTON Fall Protection - Instructor Refresher (CERTIFICATION) (sunset – code no longer used)</i>	1.5	36

COURSE ALPHA NUMERIC		CATEGORY NAME	
FTI 1100	Health and Safety, continued		
Course Code and Name		Hours	Months Valid
FTI 1140 Temporary Work Platforms Train-the-Trainer (Rigid-Hybrid-Flexible Systems) (sunset – code no longer used)		24	N/A
FTI 1141 Changing the Culture of Construction		16	N/A
FTI 1142C OSHA 5402 - Maritime Outreach Trainer Update (sunset – code no longer used)		24	48
FTI 1143 SLI Mobile Elevated Work Platform (MEWP) (sunset – code no longer used)		16	N/A
FTI 1144C NCCCO Signalperson Refresher (CERTIFICATION)		8	48
FTI 1145 PCB Awareness TTT		8	N/A
FTI 1146 Heat Stress (sunset – code no longer used)		3	N/A
FTI 1147 Infection Disease/ICRA/COVID-19 Awareness (sunset – code no longer used)		4	N/A
FTI 1148 MEWP - ANSI A-92 Supplement (sunset – code no longer used)		1.5	N/A
FTI 1149 Introduction to Toxicology for Occupational Health and Safety (sunset – code no longer used)		3	N/A
FTI 1150 Infection Control Risk Assessment (ICRA) Awareness TTT - Level 2 (sunset – code no longer used)		16	N/A
FTI 1151 Radiological Fundamentals (sunset – code no longer used)		3	N/A
FTI 1152 Biological Effects of Radiation (sunset – code no longer used)		3	N/A
FTI 1153C American Heart Association Heartsaver Master Instructor Refresher (CERTIFICATION)		12	N/A
FTI 1154 Peer Support		20	N/A
FTI 1155C OSHA 503 Update for General Industry Outreach Trainers (CERTIFICATION)		32	48
FTI 1156 Lead Awareness (sunset – code no longer used)		2	N/A

COURSE ALPHA NUMERIC	CATEGORY NAME		
FTI 1100	Health and Safety, continued		
	Course Code and Name	Hours	Months Valid
	<i>FTI 1157 ETCP Hoist and Rigging (sunset – code no longer used)</i>	32	N/A
	FTI 1158 Health and Safety Instructor Symposium	16	N/A
	FTI 1159 ---Not yet Assigned---	N/A	N/A
	FTI 1160C OSHA 511 Occupational Safety and Health Standards for General Industry (CERTIFICATION)	32	48
	FTI 1161 ---Not yet Assigned---	N/A	N/A
	FTI 1162 Occupational Noise and Hearing Loss	8	N/A
	FTI 1163-1164 ---Not yet Assigned---	N/A	N/A
	FTI 1165C Mobile Elevated Working Platform (MEWP) (CERTIFICATION)	32	?
	FTI 1166-1172 ---Not yet Assigned---	N/A	N/A
	FTI 1173C Scaffold Worker-Erector-Dismantler (CERTIFICATION)	40	?
	FTI 1174-1184 ---Not yet Assigned---	N/A	N/A
	FTI 1185 Lead Awareness TTT	8	N/A
	FTI 1186 ---Not yet Assigned---	N/A	N/A
	FTI 1187C Permit Required Confined Space Entry (CERTIFICATION)	24	Permanent
	FTI 1188-1199 ---Not yet Assigned---	N/A	N/A
	FTI 120C Forklift Instructor/Evaluator (CERTIFICATION)	8	36

COURSE ALPHA NUMERIC	CATEGORY NAME	
FTI 1200	Leadership	
Course Code and Course Name	Hours	Months Valid
FTI 1200 IUPAT Top Down Sales Training (sunset - code no longer used)	?	N/A
FTI 1201 IUPAT Leadership Series I (sunset - code no longer used)	45	N/A
FTI 1202 IUPAT Leadership Series II (sunset - code no longer used)	45	N/A
FTI 1203 BTA 101: Strategic Planning (sunset - code no longer used)	38	N/A
FTI 1204 BTA 102: Closing the Deal (sunset - code no longer used)	38	N/A
FTI 1205 BTA 103: Getting the Word Out (sunset - code no longer used)	38	N/A
FTI 1206 BTA 104: Campaign Organizing (sunset - code no longer used)	38	N/A
FTI 1207 BTA 105: Contract Negotiations in the Construction Industry	38	N/A
FTI 1208 BTA 106: Labor Law in the Construction Industry	38	N/A
FTI 1209C Program Leadership Series Training Completion (CERTIFICATION) (sunset - code no longer used)	320	Permanent
FTI 1210 The IUPAT Integrated Membership Services Enhanced (IMSe) (sunset - code no longer used)	16	N/A
FTI 1211 Organizing Summit (sunset - code no longer used)	32	N/A
FTI 1212 Supervisor Training Program (STP) TTT (sunset - code no longer used)	24	N/A
FTI 1213 Leadership and Communication for DOTs/Coordinators (sunset - code no longer used)	32	N/A
FTI 1214 Financial Officer Training	32	N/A
FTI 1215 Leadership TTT (sunset - code no longer used)	32	N/A
FTI 1216 Organizing Leadership Series I	40	N/A

COURSE ALPHA NUMERIC		CATEGORY NAME	
FTI 1200	Leadership		
Course Code and Course Name		Hours	Months Valid
FTI 1217 Organizing Leadership Series II		40	N/A
FTI 1218 Leadership Development		40	N/A
<i>FTI 1219 Collective Bargaining in the Construction Industry (sunset - code no longer used)</i>		40	N/A
FTI 1220 Communications and Digital Media		40	N/A
FTI 1221 Labor Law in the Construction Industry		40	N/A
FTI 1222 Top-Down Organizing		40	N/A
FTI 1223 Industrial Organizing		40	N/A
FTI 1224 Bottom-Up Organizing		40	N/A
FTI 1225 Advanced Service Training 101		40	N/A
FTI 1226 Advanced Service Training 102		40	N/A
<i>FTI 1227 C.O.R.E./Legislative Communication (sunset - code no longer used)</i>		40	N/A
<i>FTI 1228 Communication Skills and Affiliate Servicing (sunset - code no longer used)</i>		12	N/A
<i>FTI 1229 International Foundation Diversity and Inclusion for the United States (sunset - code no longer used)</i>		2	N/A
<i>FTI 1230 International Foundation Diversity and Inclusion for Canada (sunset - code no longer used)</i>		2	N/A
FTI 1231-1233---Not yet Assigned---		N/A	N/A
FTI 1234 Thinking Like a Leader		8	N/A
FTI 1235 Strategic Thinking		16	N/A
FTI 1236-1237---Not yet Assigned---		N/A	N/A
FTI 1238 Leadership Training for Women in the Construction Industry		16	N/A
FTI 1239 NLRB Election		32	N/A

COURSE ALPHA NUMERIC		CATEGORY NAME	
FTI 1200	Leadership		
	FTI 1240-1241---Not yet Assigned---	N/A	N/A
	FTI 1242 IUPAT Leadership Development Program	8	N/A
	FTI 1243 Black CORE Leadership	80	N/A
	FTI 1244-1299---Not yet Assigned---	N/A	N/A

COURSE ALPHA		CATEGORY NAME	
NUMERIC			
FTI 2000	Coating Application Specialist (CAS)		
Course Code and Course Name		Hours	Months Validity
FTI 2000C Coating Application Specialist (CAS) Train the Trainer (CERTIFICATION) (sunset - code no longer used)		40	Permanent
FTI 2001 AMPP Pipeline Corrosion Introductory Training (PCIT) Program (sunset - code no longer used)		16	N/A
FTI 2002C SSPC Protective Coatings Inspector (PCI) Course (CERTIFICATION)		48	48
FTI 2003C SSPC C-3 Re-Take Exam (CERTIFICATION) (sunset - code no longer used)		8	Permanent
FTI 2004C SSPC CAS (CERTIFICATION) (sunset - code no longer used)		16	Permanent
FTI 2005C Exam & Proctor Orientation & Training (CERTIFICATION) (sunset - code no longer used)		24	Permanent
FTI 2006C AMPP CIP Level II (CERTIFICATION) (sunset - code no longer used)		48	36
FTI 2007C AMPP Pipeline OQ (CERTIFICATION) (sunset - code no longer used)		16	36
FTI 2008 PCI Re-Take Exam (sunset - code no longer used)		8	N/A
FTI 2009C SSPC C-3 Supervisor/Competent Person Training for Deleading of Industrial Structures (CERTIFICATION) (sunset - code no longer used)		32	Permanent
FTI 2010C SSPC C-7 Dry Abrasive Blasting Training Program (CERTIFICATION) (sunset - code no longer used)		16	60
FTI 2011C AMPP CIP Level I (CERTIFICATION) (sunset - code no longer used)		48	36
FTI 2012C SSPC CAS Auditor Training (CERTIFICATION) (sunset - code no longer used)		32	Permanent
FTI 2013 Industrial Applicator Train-the Trainer		32	N/A

COURSE ALPHA NUMERIC	CATEGORY NAME
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FTI 2000 Coating Application Specialist (CAS)

Course Code and Course Name	Hours	Months Valid
<i>FTI 2014C AMPP Certified Coating Applicator Examiner (CERTIFICATION) (sunset - code no longer used)</i>	40	36
FTI 2015-2104 ---Not yet Assigned---		
FTI 2105C CAS Level I (CERTIFICATION)	42	Permanent
FTI 2106-2608 ---Not yet Assigned---		
FTI 2609C Kretus Foundational Skills (CERTIFICATION)	40	Permanent
FTI 2610C Kretus Garage Flooring and More (CERTIFICATION)	40	Permanent
FTI 2611-2800 ---Not yet Assigned---		
<i>FTI 2801C SSPC C-2 Planning and Specifying Industrial Coatings Projects (CERTIFICATION) (sunset - code no longer used)</i>	4	Permanen
FTI 2802 AMPP C3 C5 and 8-Hour Lead Worker TTT	24	N/A
FTI 2083-2806 ---Not yet Assigned---		
<i>FTI 2807C SSPC C-14 (MPCAC) Marine Plural Component Program (CERTIFICATION) (sunset - code no longer used)</i>	32	48

COURSE ALPHA NUMERIC	CATEGORY NAME
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FTI 3000 Drywall Finisher

Course Code and Course Name	Hours	Montl Valic
FTI 3000C AMES (CERTIFICATION)	24	60
<i>FTI 3001C Trim-Tex (CERTIFICATION) (sunset - code no longer used)</i>	16	Perman
FTI 3002-3099 ---Not yet Assigned---		

COURSE ALPHA NUMERIC		CATEGORY NAME		
FTI 4000	Floor Coverer			
Course Code and Course Name		Hours	Months Valid	
FTI 4001C ARMSTRONG Certified Installer Program (ACIP) Train-the-Trainer (CERTIFICATION) (sunset - code no longer used)		32	Permanent	
FTI 4002C FORBO Associate Mechanic Train the Trainer (CERTIFICATION) (sunset - code no longer used)		40	Permanent	
FTI 4003 Johnsonite Specialty Products Train-the-Trainer (sunset - code no longer used)		32	N/A	
FTI 4004 Specialties of the Floorcovering Trade I		32	N/A	
FTI 4005 Tarkett Sheet Vinyl Train-the-Trainer (CERTIFICATION)		32	Permanent	
FTI 4006-4102 ---Not yet Assigned---				
FTI 4103C Certified Flooring Installers (CFI) (CERTIFICATION)		20	36	
FTI 4104-4105 ---Not yet Assigned---				
FTI 4106 CFI Hand Sewing and Pattern Correction		40	N/A	
FTI 4107 CFI Residential Stair and Carpet Restoration		32	N/A	
FTI 4108-4218 ---Not yet Assigned---				
FTI 4219 Jon Don Concrete Surface Preparation and Polishing		40	N/A	
FLR 4220 ARDEX Flooring TTT		20	N/A	
FTI 4221 ARDEX Specialties of Floor Covering		24	N/A	
FTI 4222-4406 ---Not yet Assigned---				
FTI 4407 Innovations4Flooring (I4F)		8	N/A	
FTI 4408-4515 ---Not yet Assigned---				
FTI 4516 NWFA		40	N/A	
FTI 4517-4599 ---Not yet Assigned---				

COURSE ALPHA NUMERIC	CATEGORY NAME
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FTI 5000 Glazier

Course Code and Course Name	Hours	Months Valid
<i>FTI 5000C AWS Certified Welding Inspector Exam Preparation Course (CERTIFICATION) (sunset - code no longer used)</i>	48	36
<i>FTI 5001C AWS Certified Welder Train the Trainer (CERTIFICATION) (sunset - code no longer used)</i>	40	36
<i>FTI 5002 Skylighting Systems Installation Train the Trainer: Super Sky (sunset - code no longer used)</i>	32	N/A
<i>FTI 5003 Total Stations (sunset - code no longer used)</i>	32	N/A
<i>FTI 5004 Total Stations II (sunset - code no longer used)</i>	40	N/A
<i>FTI 5005C Green Advantage TTT (CERTIFICATION) (sunset - code no longer used)</i>	24	60
<i>FTI 5006 School Guard Glass Installation (sunset - code no longer used)</i>	16	N/A
<i>FTI 5007 Schuco - FW60+ Captured and Structurally Glazed Systems (sunset - code no longer used)</i>	24	N/A
<i>FTI 5008C Graco Spray Equipment (CERTIFICATION) (sunset - code no longer used)</i>	28	Perman
FTI 5009C AGMT (CERTIFICATION)	16	48
FTI 5010 AGMT Prep	16	N/A
FTI 5011---Not yet Assigned---		
FTI 5012 AGMT Proctor TTT	16	N/A
FTI 5013---Not yet Assigned---		
FTI 5114 Woods Powr-Grip	16	N/A
FTI 5115-5122 ---Not yet Assigned---		
FTI 5123 Trimble Robotic Total Stations	24	N/A
FTI 5124 Raise Robotics System for Layout Marking TTT	24	N/A
FTI 5125-5304 ---Not yet Assigned---		
FTI 5305 Procore Construction Project Management Tools	16	N/A
FTI 5306-5999 ---Not yet Assigned---		

COURSE ALPHA NUMERIC	CATEGORY NAME
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FTI 6000 Hydro Blaster/Vacuum Technician

Course Code and Course Name	Hours	Months Valid
<i>FTI 6000 Hydroblaster/Vacuum Technician (sunset - code no longer used)</i>	40	N/A
FTI 6001-6099 ---Not yet Assigned---		

COURSE ALPHA NUMERIC	CATEGORY NAME
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FTI 7000 Painter-Decorator and Finisher

Course Code and Course Name	Hours	Months Valid
<i>FTI 7000 Specialties of the Drywall Trade I (sunset - code no longer used)</i>	32	N/A
FTI 7001C Specialties of Concrete Toppings and Coatings: ARDEX (CERTIFICATION)	32	Permanent
FTI 7002---Not yet Assigned---		
<i>FTI 7003 Faux Effect - Decorative Finishes I (sunset - code no longer used)</i>	40	N/A
<i>FTI 7004 Faux Effect - Decorative Finishes II (sunset - code no longer used)</i>	40	N/A
FTI 7005 Wallcovering Beginner Train The Trainer	40	N/A
<i>FTI 7006C SSPC Train the Painter TTT (CERTIFICATION) – code no longer used</i>	16	60
FTI 7007-7106 ---Not yet Assigned---		
FTI 7107 Benjamin Moore Train the Trainer Seminar	32	N/A
FTI 7108 Benjamin Moore - Site Visit/Training	32	N/A
FTI 7109-7809 ---Not yet Assigned---		
FTI 7900 Fundamentals of Decorative Finishing Part 1	40	N/A
<i>FTI 7901 Decorative Painting (sunset - code no longer used)</i>	40	N/A
FTI 7902 Fundamentals of Decorative Finishing Part 2	40	N/A

COURSE ALPHA NUMERIC	CATEGORY NAME
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FTI 7000 Painter-Decorator and Finisher

Course Code and Course Name	Hours	Months Valid
FTI 7903-7999---Not yet Assigned---		

COURSE ALPHA NUMERIC	CATEGORY NAME
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FTI 9000 Instructor and Degree Programs

Course Code and Course Name	Hours	Months Valid
FTI 9000-9996 ---Not yet Assigned---		
FTI 9997 FTI Associate Instructor Enrollment	N/A	N/A
FTI 9998C FTI Associate Instructor Graduation	N/A	Permanent
FTI 9999C FTI Master Instructor Capstone Project (CERTIFICATION)	24	48



Degree Program Course Description

COURSE	DESCRIPTION
DEG 9000 SUNY Empire State College - Labor Studies Residency 1	Hour/s: 40 Education Planning - The purpose of Educational Planning for Labor Studies is for each student to design and complete a degree program that will 1) fulfill the College's degree requirements, and, 2) allow the choosing of degree-related courses of interest. College Writing for Workers - This course provides students with the opportunity to spend a semester working intensively on their writing and writing process, while reflecting on the values of being a trade unionist.
DEG 9001 SUNY Empire State College - Labor Studies Residency 2	Hour/s: 40 The courses offered in the second residency could change depending on what semester it winds up in, and who's available to teach. Courses that will be taught at some point in the residency include: Labor and The Economy, Literature and Society for Workers, and U.S. Labor History.
DEG 9002-9996 ---Not yet Assigned---	Hour/s: N/A XXX
DEG 9006C Associate Degree	Hour/s: N/A Associate Degree Certificate (Certification Period: Permanent)
DEG 9997C Bachelor Degree	Hour/s: N/A Bachelor's Degree Certificate (Certification Period: Permanent)
DEG 9998C Master Degree	Hour/s: N/A Master's Degree Certificate (Certification Period: Permanent)
DEG 9999C Doctorate Degree	Hour/s: N/A (Certification Period: Permanent)



DOT Sessions Course Description

COURSE	DESCRIPTION
DOT 1020 Cyber Security	Hour/s: 2 DoT Session on IUPAT Cyber Security and Data Privacy Policies
DOT 1146 Heat Stress	Hour/s: 2 The AGMT (Architectural Glass and Metal Technician) certification will be a full day written exam and a day hands-on. Prerequisites include documented 7500 Glazing work hours, at least OSHA 10 certification, and an ATR recommendation. AGMT Glazier Certification from Home Video
DOT 1216 Peak Performance	Hour/s: 2 The Directors of Training will learn how to maximize their efforts and that of their staff, as they relate to assignments, production and performance. The lessons learned within this session, will help them gain structure, detail and most importantly, time within their already over extended schedules.
DOT 123 Blame the Worker Safety Programs	Hour/s: 2 Discussion on safety programs that blame the worker and the risks associated with those types of programs.
DOT 172 OSHA Inspection Guidelines	Hour/s: 2 Introduction at how OSHA Inspection are conducted
DOT 2014 AMPP CCA Updates	DoT Session Q & A on AMPP CCA Exams, audits and updates
DOT 5009 AGMT	Hour/s: 2 In this course, you will learn about the basics of heat stress and heat related illnesses in the work environment. It will review what heat stress is, who is affected, case studies, heat related illnesses, regulations/guidance related to heat stress, how to assess heat stress in the work environment and how to reduce workers risk to suffering from heat related illnesses. A small group, hands-on activity assessing heat stress will conclude the course.



International FTI Course Description

Instructional Techniques and Applications

COURSE

DESCRIPTION

FTI 1000 Introduction to Teaching Techniques for Adults

Hour/s: 40

During this course, Introduction to Teaching Techniques for Adults, trainers and coordinators of occupational training and apprenticeship will learn basic information and instructional strategies and methods for training. Included in this course are an introduction to computers, principles of adult learning theory, learning styles, planning, organizing and conducting training, developing engaging activities, and using instructional aids.

FTI 1001 Teaching Techniques for Adults

Hour/s: 40

Instruction for year two Instructors and Coordinators of occupational training and apprenticeship. Included in the course are intermediate computers, laboratory safety, testing, and evaluation, and advanced instructional methods.

FTI 1002 Teaching Techniques I (sunset - code no longer used)

Hour/s: 40

Introduction to instruction for Instructors and Coordinators of occupational training and apprenticeship. Included in this course are an introduction to computers, communication and interaction, planning, organizing and conducting training, and developing and using instructional aids.

FTI 1003 Teaching Techniques II (sunset - code no longer used)

Hour/s: 40

This teaching techniques course is designed to teach adult learning theories to instructors of occupational, adult education, and apprenticeship training programs. Included in this course are laboratory safety; testing and evaluation; and advanced instructional techniques. Students will be required to develop, write, and teach a lesson plan.

FTI 1004 Teaching Techniques III (sunset - code no longer used)

Hour/s: 40

This advanced teaching techniques course is designed for instructors of occupational, adult education, and apprenticeship training programs. Included in the course are advanced use of teaching aids; implementing the curriculum; and advanced evaluation. Students will be required to review and critique curriculum.



COURSE

DESCRIPTION

FTI 1005 Vocational English as a Second Language (VESL)



Hour/s: 32

Vocational English as a Second Language is a 32-hr course designed to teach trainers the theory of how adult Limited English Proficient (LEP) students learn a second language. The course will give trainers specific techniques in English language assessment, pronunciation, spelling and use of new vocabulary. The course will also provide curricula for first year Paint, Drywall Finishing, Glazing and Floorcovering apprenticeship as well as OSHA 10 and other Safety training. Course participants will be required to build presentations in accordance with VESL learning objectives and to present those lessons to the entire class. This course will prepare participants to return to their training programs and teach LEP students in English. The techniques in this course can be used in everyday teaching of adult students.

FTI 1006 Survival of the Fittest for Instructors

Hour/s: 32

This course is designed to provide apprentices and journey workers with vital skills, attitudes and behavior necessary to compete in today's industry. This highly interactive course aims to provoke and stimulate training. Student discussions will focus on subjects such as market share, absenteeism, harassment, integrity, competition, supervision, and money management.

Student Version Course Code - COR 1002S Survival of the Fittest (Student Access)

FTI 1007 Teaching Union History (sunset - code no longer used)

Hour/s: 32

This newly designed course is based on the IUPAT history, One Union. Instructors will receive handouts, slides, and techniques, and the abridged version for use in teaching IUPAT history to apprentices.

Student Version Course Code - COR 1000 IUPAT History

FTI 1008 Sexual Harassment in the Workplace



Hour/s: 16

Sexual Harassment in the Workplace offers an overview of what sexual harassment is and how it affects organizations. The course details how to recognize harassing behaviors and what factors should be considered when determining whether behavior rises to the level of sexual harassment. Sexual Harassment in the Workplace also provides an overview of employer liability according to EEOC guidelines. Additionally, the course provides actions to prevent or stop sexual harassment.

COURSE

DESCRIPTION

FTI 1009 Green Building: The Basics of Sustainability

Hour/s: 8

One of the most popular and potentially influential socio-economic issues currently under discussion is that of Sustainability, which includes energy efficiency and high performance and “green” building. This course will present the basics including definitions, benefits, and elements of Sustainability and will focus on related theories, practices, methods, and materials in construction, conscientious maintenance and awareness in lifestyle to ensure the quality and sustainability of our planet.

FTI 1010 Green Building: Interpreting Green Bid Specifications (sunset - code no longer used)

Hour/s: 8

As Green technology becomes a greater influence in the building trades, it is becoming increasingly important for contractors and trades people to become aware of and able to read and understand the language of “green specifications” during the bidding process. This course will take these professionals from start to finish in understanding these terms and then applying them as they construct a bid for the finishing trades.

FTI 1011 Green Building: LEED Accredited Professional Examination Preparation (sunset - code no longer used)

Hour/s: 16

Learn the design and construction elements needed to receive proper contractor accreditation and building certification according to the U. S. Green Building Council (USGBC) and Leadership in Energy and Efficiency Design (LEED) guidelines. Review the aspects involved in the design submittal and construction submittal process of a building project. Course instruction includes lecture, activities, and sample test question reviews to prepare students for the LEED Accreditation exam. For additional information visit www.sspc.org to download the employment verification form at www.sspc.org/training/c-7.html

FTI 1012 Directors of Training Seminar

Hour/s: 24

The IUPAT Directors of Training Seminar is a three-day program (24 hours) exclusively for DC/LU Training Directors and Training Coordinators to network with their peers, share experiences, and discuss issues important to them. The seminar is a dynamic blend of presentations and interactive discussions that will identify common challenges, needs, and best practices for IUPAT apprenticeship and Journeyman Training Programs.



COURSE	DESCRIPTION
<i>FTI 1013 Administrative Techniques for Training Coordinators (sunset - code no longer used)</i>	<p><i>Hour/s: 32</i></p> <p><i>This course is designed to meet the needs of coordinators in the areas of program monitoring, record keeping, legal requirements, Trust agreements and tax forms. Additionally, discussion will focus on recruitment, retention and coordination between the training department and the union.</i></p>
<i>FTI 1014 Canadian Director of Training Seminar (code no longer used)</i>	<p><i>Hour/s: 24</i></p> <p><i>The IUPAT Directors of Training Seminar is a three-day program (24 hours) exclusively for DC/LU Training Directors and Training Coordinators to network with their peers, share experiences, and discuss issues important to them. The seminar is a dynamic blend of presentations and interactive discussions that will identify common challenges, needs, and best practices for IUPAT Apprenticeship and Journey person Training Programs.</i></p>
<i>FTI 1015 Central Region Director of Training Seminar (code no longer used)</i>	<p><i>Hour/s: 24</i></p> <p><i>The IUPAT Directors of Training Seminar is a three-day program (24 hours) exclusively for DC/LU Training Directors and Training Coordinators to network with their peers, share experiences, and discuss issues important to them. The seminar is a dynamic blend of presentations and interactive discussions that will identify common challenges, needs, and best practices for IUPAT Apprenticeship and Journey person Training Programs.</i></p>
<i>FTI 1016 Computer Applications (sunset - code no longer used)</i>	<p><i>Hour/s: 32</i></p> <p><i>This is a basic course in the use of computers. It will also introduce the student to word processing software and basic use of the Internet. This class is required to complete the Associate's Degree.</i></p>
FTI 1017 IUPAT History/Structure and Introduction to Computing Applications	<p>Hour/s: 40</p> <p>The course provides an introduction to computers, LMS, and Microsoft application. Participants must complete 40 hours of online LMS training.</p>

COURSE**DESCRIPTION**

**FTI 1018 Eastern Region
Director of Training Seminar
(code no longer used)**

Hour/s: 24

The IUPAT Directors of Training Seminar is a three-day program (24 hours) exclusively for DC/LU Training Directors and Training Coordinators to network with their peers, share experiences, and discuss issues important to them. The seminar is a dynamic blend of presentations and interactive discussions that will identify common challenges, needs, and best practices for IUPAT Apprenticeship and Journey person Training Programs.

**FTI 1019 Introduction to Power
Point (sunset - code no longer
used)**

Hour/s: 40

Learn to use PowerPoint to create effective presentations, from start to finish. Master the skills necessary to plan and develop presentations, including starting a presentation, editing text, reorganizing your slides to make a more logical presentation, adding multiple-level bulleted entries, and setting up a slide show. Learn how to use slide masters to make slide templates that are consistent in appearance. Additional topics include using drawing tools, clip art, and WordArt to create attractive art and logos that add impact to your presentation.

**FTI 1020 IT-101 Fundamentals
of Computers (sunset - code no
longer used)**

Hour/s: 45

An introductory computer literacy course designed to enable the student to understand the terminology, applications, processes and effects of computers and the environments in which they are utilized.

**FTI 1021 English 111 (sunset -
code no longer used)**

Hour/s: 45

ENL 111 - Written Communication. 3 Credits. This course provides instruction and experience in preparation and delivery of written communication in workplace and personal settings. Emphasis is placed on the writing process including production of unified, coherent, well-developed essays, letters and memos using standard written English.

**FTI 1022 Western Region
Director of Training Seminar
(sunset - code no longer used)**

Hour/s: 24

The IUPAT Directors of Training Seminar is a three-day program (24 hours) exclusively for DC/LU Training Directors and Training Coordinators to network with their peers, share experiences, and discuss issues important to them. The seminar is a dynamic blend of presentations and interactive discussions that will identify common challenges, needs, and best practices for IUPAT Apprenticeship and Journey person Training Programs.

COURSE	DESCRIPTION
FTI 1023 Introduction to Computing Applications for Instructors	<p>Hour/s: 24</p> <p>This 24-hour course will provide level 1 basics of Microsoft Word, Microsoft PowerPoint and Microsoft Excel (7 hours per course.) Students will also receive an overview of the FTI LMS, the Member Mobile APP and an overview and tips and tricks of Microsoft Windows. Microsoft Courses will be taught by professionals from our local community college (AACC).</p>
FTI 1024 Computing Applications Level 2	<p>Hour/s: 24</p> <p>This three-day course provides intermediate (Level 2) training in Microsoft Word, PowerPoint, and Excel (8 hours per topic). This course would be the next level of training for participants who took the FTI 1023 Introduction to Computing Applications for Instructors. Courses will be taught by professionals from our local community college (AACC).</p>
FTI 1025 Mentorship TTT	<p>Hour/s: 8</p> <p>The Mentorship Matters™ on-the-job mentoring program enables clients to establish and apply industry best practice in knowledge and skill transfer between journeypersons and apprentices.</p> <p>This industry-aligned and endorsed program includes mentorship training for apprentices and journeypersons, train-the-trainer training and tools for clients to effectively deliver the program.</p> <p>Since its inception in 2012, thousands of apprentices and journeypersons across North America have been trained using this program, with proven results in increased skills acquisition, productivity and safety, intergenerational communication and enhanced job satisfaction and retention.</p>
<i>FTI 1026 Google Classroom - Introduction (sunset - code no longer used)</i>	<p>Hour/s: 4</p> <p><i>Classroom is a free web-based platform that integrates your G Suite for Education account with all your G Suite services, including Google Docs, Gmail, and Google Calendar. Classroom saves time and paper, and makes it easy to create classes, distribute assignments, communicate, and stay organized.</i></p>
<i>FTI 1027 Adult Instruction and Learning (sunset - code no longer used)</i>	<p>Hour/s: 6</p> <p><i>Dr. Mark Johnson will be presenting a 3-part series on Adult Instruction and Adult Learning. Part 1 will be: Introduction to Today's Learner; Part 2 Engaging Learners; Part 3 Online Assessments and Authentication</i></p>

COURSE	DESCRIPTION
FTI 1028 Experienced Instructor Refresher	<p>Hour/s: 20</p> <p>In this coursetrainers and coordinators of occupational training and apprenticeship will apply enhanced instructional strategies and methods for training. Participants will be able to improve their teaching effectiveness and speed up student understanding.</p>
FTI 1029 Building Union Power TTT	<p>Hour/s: 8</p> <p>This Train-the-Trainer (TTT) course is designed to prepare facilitators to deliver COR 1028 Building Union Power, a training experience rooted in the IUPAT's core value statement: "One Union, One Family, One Fight." The TTT course equips participants with the tools, techniques, and confidence to lead effective sessions that emphasize solidarity, commitment, and collective action. Participants will engage in teachbacks, peer feedback, and skill-building exercises to strengthen their facilitation techniques.</p> <p><i>Student Version Course Code - COR 1028 Building Union Power</i></p>
FTI 1030 IUPAT Member Empowerment Campaign	<p>Hour/s: 8</p> <p>The training will explore what "One Union, One Family, One Fight" means and why it calls for an organizational transformation, examine why and how we define a union, analyze the current state of member engagement, and introduce the wheel of and a multi-dimensional strategy.</p>
FTI 1031-1038 ---Not yet Assigned---	<p>Hour/s: XX</p> <p>XXX</p>
FTI 1039 IUPAT HQ Orientation (sunset - code no longer used)	<p>Hour/s: 7</p> <p><i>This training is designed for new employees of the International Union of Painters and Allied Trades Headquarters. The GP provides a welcome message and an hour will be spent on IUPAT Labor and American History. Topics also include the International Structure, Funds, DC/LU Structure, Trade Videos, and CBA Handbooks/Benefits.</i></p>
FTI 1040 LMS Admin Workshop	<p>Hour/s: 16</p> <p>The LMS workshop is an in-depth discussion of the main tabs of the administrator functions including but not limited to using the enrollment functions, creating and modifying groups, generating reports, and uploading course/certification completions and certifications. Additional topics include the IUPAT Mobile app and the OJL feature.</p>

Health and Safety

COURSE

DESCRIPTION

FTI 1041 IUPAT Respectful Workplace TTT

Hour/s: 8

The IUPAT Respectful Workplace Train-the-Trainer Program is designed to support the IUPAT and its affiliated apprenticeship programs as we seek to eliminate harassment, discrimination, hazing, bullying, and other inappropriate behavior from our work environment. The training emphasizes safety and productivity issues associated with negative workplace behaviors. The program also promotes inclusion and equity best practices to increase the recruitment and retention of our diverse workforce. Following this course, you will be able to deliver the 60-minute IUPAT Respectful Workplace Training program. Enrollment is limited to 15. The training includes 8 hours of instruction delivered over two consecutive days.

Student Version Course Code - COR 1041 IUPAT Respectful Workplace

FTI 1042-1099 ---Not yet Assigned---

Hour/s: XX

XXX

FTI 110-FTI 15---Not Yet Assigned

Hours: X

FTI 116C American Red Cross First Aid/CPR/AED (CERTIFICATION)

Hours: 24

This American Red Cross course will help you maintain the valuable knowledge and skills you learned in the areas of emergency response, automated external defibrillation, and cardiovascular pulmonary resuscitation, as well as emergency response, automated external defibrillation, and cardiovascular pulmonary resuscitation.

FTI 117-FTI 123---Not Yet Assigned

Hours: X

FTI 124 Air Monitoring and Exposure Assessment (sunset - code no longer used)

Hours: 3

This three-hour course will cover fundamental aspects of air monitoring and exposure assessment in relation to protecting workers from airborne hazards. Both personal and area assessments will be covered and a review of "best practices" will be given. The interpretation and application of air monitoring results will also be presented. The course will conclude with a small group hands-on or table-top activity concerning many of the instruments and techniques discussed in class. This course will be a benefit to trainers who deliver health and safety related courses or to IUPAT members who have health and safety responsibilities at their DC or LU.

COURSE	DESCRIPTION
FTI 125-FTI 137---Not Yet Assigned	Hours: X
FTI 138 Occupational Exposure to Silica	<p>Hours: 8</p> <p>8 hours (4 hours for HAZCOM course and 4 hours for the TTT portion)</p> <p>This course will focus on what silica is, where it can be found, worker exposure, how it affects the body, silica controls and a review of the construction industry silica standard 29 CFR 1926.1153. This four-hour course will include small group activities including review of case studies, developing an exposure control plan and use of personal air sampling devices and media used to determine workers exposure.</p> <p><i>NOTE: COR 138 or SPN 138 courses can be assigned to students.</i></p>
FTI 139 OVERTON Rigger Level I Test Prep	<p>Hours: 20</p> <p>This 20-hour training is a train-the-trainer course for the Rigger 1 prep class in preparation for the National Certification written exam including the CCO practical exam.</p>
FTI 140-FTI 153---Not Yet Assigned	Hours: X
FTI 154 Globally Harmonized System Hazard Communication (GHS Haz Com)	<p>Hours: 8</p> <p>8 hours (4 hours for HAZCOM course and 4 hours for the TTT portion)</p> <p>This course includes a presentation of common chemical hazards, the scope of chemical exposure in the workplace, a review of the most recent version of the HAZCOM standard 29 CFR 1910.1200, discussion HAZCOM programs, chemical inventories, hazard communication methods (including use of Safety Data Sheets (SDS) and labels) and training requirements under the standard. The course includes four small group activities covering the workers' health and safety rights and the standard, HAZCOM programs, and working SDS sheets and labels.</p>
FTI 155-FTI 165---Not Yet Assigned	Hours: X
FTI 166 Protecting Workers from Mold (sunset - code no longer used)	<p>Hours: 3</p> <p><i>The is an introductory to mid-level mold course. It will take an in-depth look at what molds are (including species and species characteristics), where you are likely to find them in occupational and public health settings, what their health effects are, how to protect workers and the public from them, how to reduce worker health risk when encountering them on the job, review regulations and guidance and finally, present basics of sound mold abatement strategies.</i></p>

COURSE	DESCRIPTION
FTI 167---Not Yet Assigned	Hours: X
FTI 168C OSHA 7505 Incident Investigation (CERTIFICATION)	<p>Hours: 8</p> <p>This course covers an introduction to basic incident investigation procedures and describes analysis techniques. Course topics include reasons for conducting incident investigations, employer responsibilities related to workplace incident investigations, and a four-step incident investigation procedure. The target audience is the employer, manager, employee or employee representative who is involved in conducting incident and/or near-miss investigations. Upon course completion students will have the basic skills necessary to conduct an effective incident investigation at the workplace (Certification Period: Permanent).</p> <p><i>NOTE: Student course code - COR 168C OSHA 7505 Incident Investigation (CERTIFICATION)</i></p>
FTI 168-FTI 173---Not Yet Assigned	Hours: X
FTI 174C HSI: First Aid and CPR (CERTIFICATION)	<p>Hours: 8</p> <p>This lesson provides instruction on how to respond confidently as a bystander to a suspected sudden cardiac arrest, perform compression-only adult CPR, and use an AED. This program does not qualify for first aid or CPR certification. After completing this lesson, learners will be able to explain a first aid provider's responsibilities, identify the legal and ethical issues related to acting as a first aid provider, and explain when it is appropriate to move ill or injured patients and how it should be done (Certification Period: 24 months).</p>
FTI 175 Respiratory Protection (sunset - code no longer used)	<p>Hours: 3</p> <p><i>Participants will gain an understanding of different aspects of respiratory protection through facilitated lecture, discussion and small group activities. Topics will include: respiratory protection programs, what respirators are and why you need them for work, how to properly don/doff respirators, cleaning maintenance and storage.</i></p>
FTI 176-FTI 180---Not Yet Assigned	Hours: X

COURSE	DESCRIPTION
FTI 181 Respiratory Protection TTT	<p>Hours: 16 (8 hours for respiratory protection course and 8 hours for the TTT portion)</p> <p>Who should take this course: IUPAT instructors who may deliver the 8-Hour Respiratory Protection end user course. All IUPAT members who may be required to wear a respirator should take the end user course. This course will satisfy most of the OSHA 1910.134 Respiratory Protection standard training requirements. Employers will still need to deliver training to each of our members concerning the employers.</p>
FTI 182-FTI 183---Not Yet Assigned	Hours: X
FTI 184 OVERTON CCO Telehandler Certification Prep and TTT	<p>Hours: 40</p> <p>Completion of this Telehandler preparatory training class will assist in preparing the participant to take the online computer based CCO National Certification written exam for Telehandlers. The CCO hands-on Practical Exam for Rotating Telehandlers (includes fixed station Telehandler endorsement) is also provided. Note: To pass the CCO Rotating Telehandler practical exam would requires the participant possess and demonstrate the required skill level on Rotating Telehandler operation and load manipulation. The CCO Rotating Telehandler practical exam verifies acceptable level of operating skill and is not designed for entry level or inexperienced persons. Federal Laws require Telehandler Operators moving loads with a hoisting line and winch be Nationally Certified (passing both the written and practical National Certification Exams, CCO Telehandler National Certification has a 36-month expiration) as well as trained, qualified, and evaluated by the employer.</p>
FTI 185 HSI Active Shooter Response	<p>Hours: 7</p> <p>Active Violence Emergency Response Training (AVERT) gives you the tools to understand how to recognize warning signs, react quickly in an active shooter situation, and learn how to control bleeding in life-threatening situations. AVERT is active shooter response training with the addition of techniques on how to stop the bleed of victims. When violence occurs, seconds count, and you can't always wait for EMS to arrive. AVERT is an active shooter training course that also enables you to become an immediate responder by learning emergency stop the bleed techniques. AVERT teaches how to recognize warning signs using situational awareness, decide whether to escape, evade or attack, apply critical stop the bleeding techniques, and respond quickly and confidently in an emergency.</p> <p><i>Student Version Course Code - COR 185 HSI Active Shooter Response</i></p>

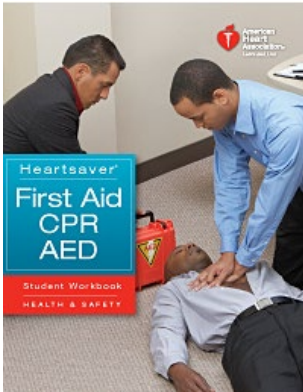
COURSE	DESCRIPTION
FTI 186-FTI 193---Not Yet Assigned	Hours: X
FTI 194 OVERTON Crane Signalperson Test Prep	<p>Hours: 16</p> <p>This 16-hour training is a train-the-trainer course for the Signalperson prep class in preparation for the National Certification written exam. Prerequisite: FTI 1111C OVERTON Mobile Elevated Work Platforms (MEWP) (CERTIFICATION)</p>
FTI 195-FTI 197---Not Yet Assigned	Hours: X
FTI 198 Pandemic Resiliency TTT	<p>Hours: 24</p> <p>The iFTI has developed a train the trainer course for educational facilities on resiliency during infectious disease pandemics (with a focus on COVID-19) or outbreaks. The curriculum will emphasize current case studies and research affecting target training populations and facility types, infectious disease awareness (with emphasis on COVID-19), developing a Pandemic Plan (with example COVID-19 Plan), the selection and implementation of health and safety controls, and finding and using trusted sources of information.</p> <p><i>NOTE: This is the training coming out of the awarded Susan Harwood Grant.</i></p>
FTI 199---Not Yet Assigned	Hours: X

COURSE	DESCRIPTION
FTI 1100 OSHA 7500 Introduction to Safety and Health Management	<p>Hour/s: 8</p> <p>This course covers the effective implementation of a company's safety and health management system. The course addresses the four core elements of an effective safety and health management system and those central issues that are critical to each element's proper management. This course is an interactive training session focusing on class discussion and workshops. The minimum student contact 5.5 hours. This course will be taught by CPWR and is named OSHA 7500.</p>
FTI 1101C Confined Space Instructor (CERTIFICATION)	<p>Hour/s: 32</p> <p>This course is designed to enable students to recognize, evaluate, prevent and abate safety and health hazards associated with confined space entry. This course, based on OSHA 226 Standard, is highly participatory with substantial hands-on training in the use of monitors, PPE, and entry and retrieval in a simulated, controlled confined space (Certification Period: Permanent).</p>
FTI 1102 Ergonomics in the Workplace	<p>Hour/s: 16</p> <p>Work-related musculoskeletal disorders (WMSDs) remain a significant but often overlooked hazard in the construction industry. Finishing trades professionals face an elevated risk due to the physical demands of their work, including repetitive motions, bending, kneeling, climbing, reaching, and twisting. Participants will learn to identify risk factors in their daily tasks and gain practical strategies for injury prevention. The course includes the latest industry guidance on ergonomic control methods, equipping workers with the knowledge and tools needed to reduce strain, improve workplace safety, and extend career longevity.</p> <p>Student Version Course Code - COR 1103 Ergonomics in the Workplace*</p> <p><i>NOTE: Used to be FTI 1102 Ergonomics in the Workplace. Edited course description and changed hours from 16 to 2 as of 03/25/25.</i></p>
FTI 1103 Hazwoper Instructor	<p>Hour/s: 40</p> <p><i>Students will be trained in recognizing and researching hazards, including the nature and causes of occupational diseases, relating OSHA standards to unsafe conditions; protecting workers' rights; and using involvement techniques for safety purposes.</i></p>

COURSE

DESCRIPTION

FTI 1104C American Heart Association Heartsaver (CERTIFICATION)



Hour/s: 20

IUPAT American Heart Association Heartsaver Instructor Courses are designed for new and renewing AHA Instructors as well as Instructors currently providing other First Aid and CPR programs. The course includes 4 components which are completed during a 2-day, 16-hour all-inclusive program. The components include:

- AHA Heartsaver Instructor Program Overview and Curriculum Implementation
- AHA Core Instructor Program
- AHA Instructor and Provider Product distribution and training material utilization
- Complete Provider Course completion with Instructor Candidate Monitoring

Upon program completion participants will be credentialed as AHA Heartsaver Instructors and receive their AHA Heartsaver First Aid, CPR and AED provider credential. Both credentials are valid for two years. Heartsaver Instructors have the ability to provide all AHA Heartsaver CPR and First Aid programs, have access to provider materials through standardized IUPAT ordering process, issue AHA credentials on site immediately following training sessions, and submit course completion information. Product ordering, roster submission and Training Center resources will be reviewed in detail during the program and enable Instructor to begin training facilitation immediately following course completion (Certification Period: 24 months).

Member Card Abbreviation: IUPAT AHA Heartsaver

FTI 1105C EPA RRP - Initial EPA Accredited Class (CERTIFICATION)



Hour/s: 8

This 1 day (8 hour) class will convey the necessary information for an Instructor to train individuals to become certified renovators in compliance with the EPA's Renovation, Repair, and Painting (RRP) rule. Instructors who will teach IUPAT members working for contractors in pre-1978 housing and child-occupied facilities (schools, daycare centers, etc.) who might disturb painted surfaces while conducting jobs, such as plumbing, electrical, drywall, painting, tile, window replacement, landscaping, repairs, construction, renovation, remodeling, HVAC, demolition, etc. should take this course (Certification Period: 60 months).

Member Card Abbreviation: EPA RRP - Initial EPA Accredited

COURSE	DESCRIPTION
FTI 1106C Lead Abatement and Silica for Instructors (CERTIFICATION)	<p>Hour/s: 40</p> <p>This course qualifies the instructor to deliver a forty-hour Supervisor's Lead-Based paint Abatement course. Participants will be provided with the curriculum and techniques necessary to teach Lead Abatement and Silica at the local level (Certification Period: Permanent).</p> <p>Member Card Abbreviation: Lead Abatement & Silica Instr</p>
FTI 1107C Lead Abatement Worker Train-the-Trainer (CERTIFICATION)	<p>Hour/s: 32</p> <p><i>Lead Worker Train-the-Trainer is a 4 day (32 hour) class designed to provide information, teaching techniques and presentation skills for trainers training workers who perform or are learning to perform abatement of lead-based paint. Topics will cover lead hazard control and abatement activities in both residential dwellings and industrial settings. The instructor will lead the trainers through the informational content and hands-on activities providing guidance and practice in the best practices to meet the needs of all learners. Participants will be required to present/and or instruct an assigned portion of the course. Other hands-on exercises will allow the trainers to perform activities such as establishing a containment and decontamination area, donning and doffing PPE and discussing the practical application of abatement and clean-up methods while benefiting from the ideas and feedback of their fellow trainers. A significant amount of time will be dedicated to, but not limited to, the accreditation/approval process, including principle instructor qualifications, training manager qualifications, course length, course changes, blue printing course materials, facilities, and quality control. Upon successful completion of the written exam and hands-on skills assessment, the participants will be qualified to teach the Lead Abatement Worker course (Certification Period: Permanent).</i></p> <p><i>Member Card Abbreviation: Lead Abatement Worker TTT</i></p>
FTI 1108 Stair and Ladder Safety	<p>Hour/s: 8</p> <p>Falls from ladders and stairways are a leading cause of serious and fatal injuries. The goals of this 8-hour train-the trainer course are to help participants understand how to correct or eliminate fall hazards on your job sites related to stairway and ladder use and understand the OSHA Stairways and Ladders Safety Requirements (OSHA 1926 Subpart X: 1053).</p> <p><i>NOTE: ZFTI 1108 Mold Remediation for Instructors has been sunset. Code is no longer used.</i></p>

COURSE**DESCRIPTION****FTI 1109C OSHA 500**

Hour/s: 40

This course is designed for members interested in teaching the 10- and 30-hour construction safety and health outreach program. Special emphasis is placed on those topics that are required in the 10- and 30-hour programs as well as on those that are the most hazardous, using OSHA standards as a guide. Course participants are briefed on effective instructional approaches and the effective use of visual aids and handouts. This course allows the student to become a trainer and to conduct both a 10- and 30-hour construction safety and health course and to issue cards to participants verifying course completion. NOTE: Students in OSHA 500 who wish to participate as authorized trainers in the Outreach Program must successfully pass a written exam at the end of the course. Outreach trainers are required to attend Course 502 at least once every four years to maintain their trainer status (Certification Period: 48 months).

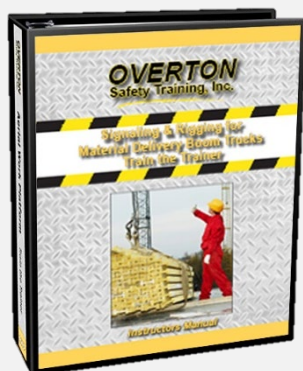
FTI 1110C OSHA 501

Hour/s: 32

This is the basic instructor course in OSHA standards for the general industry. This course includes an overview of safety standards for non-construction workplaces. The course also includes information on the identification and remediation of hazards as well as reporting requirements (Certification Period: 48 months).

**FTI 1111C OVERTON Mobile
Elevated Work Platforms
(MEWP) (CERTIFICATION)**

Hour/s: 32




This 40-hour course for company trainers wishing to provide in-house employee training. Rigging, Forklift, & Aerial/Scissor Lifts Trainer programs includes: how to be an effective trainer, classroom presentation, applying the written exam, evaluating competency, and the required paperwork and record keeping. Each course will address laws and regulations, stability principles, pre-operational inspection procedures, safe operating practices, and evaluating competency. The Rigging course will also cover most types of slings and basic rigging hardware as well as the principles, practices and techniques of basic rigging. In conclusion the course also provides additional class teach-backs and a practical hands-on training for inspection, selection and basic safe rigging techniques (Certification Period: 36 months).

NOTE: As of February 24, 2023, FTI 1111C has a new name: FTI 1111C OVERTON Mobile Elevated Work Platforms (MEWP) (CERTIFICATION).

Student Course Code: COR 134C OVERTON Mobile Elevated Work Platforms (MEWP)

Member Card Abbreviation: OVERTON Rigging and Signaling

COURSE	DESCRIPTION
FTI 1112C Scaffold Competent Person (CERTIFICATION)	<p>Hour/s: 24</p> <p>The intent of the scaffold training is to provide a comprehensive training program covering scaffold equipment including suspended scaffold, slung scaffold, free standing scaffold, catenary scaffold, putlog scaffold and independent tied scaffold used by union members. The course will address the federal requirements as outlined under OSHA Subpart L - Scaffolds, 1926.450-452, 1926.454 and the ANSI/ASSP A10.8-2019 Scaffolding Safety Requirement (Certification Period: 36 months)</p> <p>Member Card Abbreviation: Scaffold Competent Person</p>
FTI 1113C American Heart Association Refresher (CERTIFICATION)	<p>Hour/s: 12</p> <p>This course includes The American Red Cross or The American Heart Association emergency response, automated external defibrillation, and cardiovascular pulmonary resuscitation, as well as emergency response, automated external defibrillation, and cardiovascular pulmonary resuscitation (Certification Period: 24 months).</p> <p>Member Card Abbreviation: AHA Refresher</p>
	<p>Hour/s: 32</p> <p>This is the basic instructor course in OSHA standards for the general industry. This course includes an overview of safety standards for non-construction workplaces. The course also includes information on the identification and remediation of hazards as well as reporting requirements (Certification Period: 48 months)</p>
FTI 1114C OSHA 510	<p>Hour/s: 40</p> <p><i>This course offers students a curriculum which combines HAZWOPER, LEAD and Asbestos Worker (Certification Period: 12 months).</i></p> <p><i>Member Card Abbreviation: CPWR HAZWOPER-LEAD-Asbestos</i></p>
<p><i>FTI 1115C CPWR HAZWOPER-LEAD-Asbestos Worker (CERTIFICATION) (sunset – code no longer used)</i></p>	<p>Hour/s: 40</p> <p>Students will be trained in recognizing and researching hazards, including the nature and causes of occupational diseases, relating OSHA standards to unsafe conditions; protecting workers' rights; and using involvement techniques for safety purposes (Certification Period: Permanent).</p>
FTI 1116C HAZWOPER TTT (CERTIFICATION)	

COURSE

DESCRIPTION

**FTI 1117C Lead Abatement
Worker (CERTIFICATION)**
(sunset – code no longer used)

Hour/s: 24

This 3-day (24-hour) course is a model class designed to enable the Instructor/s to train Lead Workers to perform his/her job with the knowledge and skills to work safely and productively while adhering to all state, federal and local regulations on lead and lead abatement practices. Students in this course will discuss their roles and responsibilities as Lead Workers, safe work practices, PPE, health effects of lead exposure and other hazards as well as hands-on lead hazard control activities such as recognizing lead-based paint hazards, interior and exterior dust abatement, establishing containment areas, setting up and using decontamination processes, waste disposal and clean-up and inspection procedures. This class fulfills the US EPA's 16-hour lead specific training requirement.

**FTI 1118C EPA RRP Refresher
(CERTIFICATION)**

Hour/s: 8

This course was developed by the U.S Environmental Protection Agency (EPA), in collaboration with the U.S. Department of Housing and Urban Development (HUD) to train renovation, repair, and painting contractors how to work safely in housing with lead-based paint and comply with EPA's Renovation, Repair, and Painting (RRP) Rule, and HUD's Lead Safe Housing Rule.

This 1 day (8 hour) class will convey the necessary information for an Instructor to train individuals to become certified renovators in compliance with the EPA's Renovation, Repair, and Painting (RRP) rule. Instructors who will teach IUPAT members working for contractors in pre-1978 housing and child-occupied facilities (schools, daycare centers, etc.) who might disturb painted surfaces while conducting jobs, such as plumbing electrical, drywall, painting, tile, window replacement, landscaping, repairs, construction, renovation, remodeling, HVAC, demolition, etc. should take this course. Topics covered in this class include: health effects, regulations, lead safe work practices, containment, cleaning and record keeping. Students with a 70% passing score on the end-of-class exam will receive an EPA-issued RRP certificate. EPA renovator certification allows the certified individual to perform renovations in any State or Indian Tribal area that does not have a separate authorized State or Tribal renovation program (Certification Period: 60 months).



FTI 1119C OSHA 502

Hour/s: 24

This course provides an update for currently authorized OSHA Construction Industry Outreach Trainers on topics such as OSHA construction industry standards, policies and regulations. Construction industry outreach trainers are required to attend this course once every four years to maintain trainer status (Certification Period: 48 months).

COURSE

DESCRIPTION

FTI 1120C USACE Fall Protection (CERTIFICATION)

Hour/s: 32

Upon successful completion of the classroom training the participant will be able to pass a written examination demonstrating comprehension of the basic selection, inspection and safe use of fall protections systems and materials when in accordance with Federal OSHA Laws and United States Army Corps of Engineers (USACE) EM385. They will have been trained, tested and understand the following:

- Recognizing potential risks and worksite hazards for workers using fall protection and understands the appropriate actions to take.
- Understand and be able to demonstrate the federal laws and basic safety rules when utilizing fall protection systems.
- Understand the proper and safe use of the fall protection systems covered in this course.
- Understand the selection, inspection, ratings, rejection criteria and proper safe use fall protection systems when using Aerial Work Platforms, Mobile, Overhead and/or Tower Cranes, of Forklift trucks to hoist personnel.

(Certification Period: Permanent)

FTI 1121C Confined Space Worker (CERTIFICATION) (sunset – code no longer used)

Hour/s: 16

The Confined Space Worker course is a 16-hour course that teaches workers about the most common hazards found in confined spaces, and about the OSHA standard that addresses these hazards. Participants also learn about safe entry procedures, monitoring principles, entry permits, ventilation, personal protective equipment and the roles of the entrant, attendant, and entry supervisor. This course includes extensive hands-on training in confined space entry and the use of PPE (Certification Period: Permanent).

FTI 1122C OSHA 5400 Standards for the Maritime Industry (sunset – code no longer used)

Hour/s: 26

This course is designed for individuals interested in teaching the 10- and 30-hour Maritime safety and health Outreach Training Program to their employees and other interested groups. Special emphasis is placed on those topics required in the 10- and 30-hour Outreach Training Program as well as the most hazardous in the maritime industry using OSHA Maritime Standards as a guide. Students are briefed on effective instructional approaches and use of visual aids and handouts. This course allows the student to become a trainer in the Outreach Training Program, to conduct 10- and 30-hour maritime classes in shipyard employment, marine terminals, and longshoring, and to issue cards to participants after verifying course completion (Certification Period: 48 months).

Member Card Abbreviation: OSHA 5400 Standards - Maritime

COURSE

DESCRIPTION

FTI 1123C OSHA 5410 - Occupational Safety and Health Standards for the Maritime Industry (sunset – code no longer used)

Hour/s: 35

This course covers OSHA policies, procedures, and standards for the maritime industry. Using the OSHA Maritime Standards as a guide, special emphasis is placed on those areas in the maritime industry which are most hazardous. Upon course completion students will define maritime terms found in the OSHA Maritime Standards, identify hazards in the maritime industry and determine appropriate controls and abatement, locate OSHA Maritime Standards, policies and procedures, and describe the use of the OSHA Maritime Standards and regulations to supplement an ongoing safety and health program. Minimum student contact.

FTI 1124C Scaffold Instructor TTT (CERTIFICATION) (sunset – code no longer used)

Hour/s: 32

Day 1&2 Scaffold Erector, Day 3 Supported and Suspended User and Regulatory, Day 4 Suspended. No pre-requisites. Minimum student contact is 32 hours (Certification Period: Permanent).

FTI 1125C Overton Mobile Crane Prep Course (CERTIFICATION)

Hour/s: 32



OVERTON Safety Training preparatory class and NCCCO National Certification exams are provided to assist the employer in meeting either the Federal OSHA and/or individual State construction regulatory requirement for Nationally Certified Crane Operators or for general industry use. The course provides professional preparatory safety training workshop with an interactive curriculum designed assist employer in preparing operators to take and pass the applicable NCCCO National Certification Written Exams. Candidate pictures will be taken for the NCCCO ID card. The program includes a wide battery of Practice Knowledge Check Questions throughout the program. No prerequisite/s. **(Certification Period: ? months).** Member Card Abbreviation: Overton Mobile Crane Prep

FTI 1126C NCCCO Crane Signal Person (CERTIFICATION)

Hour/s: 32

This certification program is nationally recognized and internationally accredited to provide trained signalpersons, who are using hand and voice signals in crane operations, to become certified by successfully passing the Written and Practical Examinations conducted by the NCCCO (Certification Period: 60 months).

FTI 1127 SSPC Proctor/Instructor Seminar (sunset – code no longer used)

Hour/s: 24

The purpose of the training is to ensure compliance with the expectations of the FTI's SSPC License Agreement by training IUPAT Instructors and Proctors in the proper delivery and administration of SSPC C3/5 Courses and CAS Certification Exams.

Prerequisite: SSPC C3/C5 instructors or SSPC CAS Proctors

COURSE

DESCRIPTION

FTI 1128C SSPC Lead Paint Safety Worker (CERTIFICATION)
(sunset – code no longer used)

Hour/s: 8

This one-day course provides training for workers on lead paint abatement and removal from steel structures. It starts with a review of basic information about lead and the human health hazards associated with it. The course continues with a review of 29 CFR 1926.62 and presents detailed information on the Respiratory Protection Standard (29 CFR 1910.134), which is incorporated by reference into the OSHA Interim Final Lead in Construction Industry Standard. The course then presents a review and update of Federal Government regulations involving lead, focusing on regulations promulgated by the EPA. The course concludes with a review of emissions control as presented in SSPC Guide 6 (Certification Period: Permanent).

Member Card Abbreviation: SSPC Lead Paint Safety Worker

FTI 1129 Infection Control Risk Assessment (ICRA) Awareness TTT (sunset – code no longer used)

Hour/s: 16

This two-day training is designed to prepare construction workers to work in ICRA controlled environments. At the completion of the Train-the-Trainer, Instructors will learn to teach the CPWR 8-hour ICRA Awareness course for workers who are performing construction in healthcare facilities but are not involved with the building and deconstruction of ICRA structures.

FTI 1130C NCCCO Rigger Level I Program (CERTIFICATION)

Hour/s: 32



NCCCO identified the following job duties for Rigger Level I certification. Level I Riggers should be able to demonstrate or have knowledge of how to inspect rigging before use, identify and attach rigging with basic knowledge of hitch configurations, capacities, and basic knots, recognize associated hazards signal operations, use various types of rigging equipment and basic hitches and their application (Certification Period: 60 months). For more details, go to <http://nccco.org/nccco/certification-programs/rigger>

FTI 1131C Overton TRAINER AerScisForklift REFRESH (CERTIFICATION)

Hour/s: 1

This is an FTI 36-month Refresher Program for previously trained and qualified Rigging, Forklift, Signaling, and Aerial/Scissor Lift professionals (Certification Period: 36 months).

Member Card Abbreviation: Overton AerScisForklift REFRESH

COURSE

DESCRIPTION

**FTI 1132C United Academy
Core 4 TTT (CERTIFICATION)
(sunset – code no longer
used)**



Hour/s: 32

Upon successful completion, our Core 4® Trainer Program will enable instructors to certify operators on boomlifts, scissorlifts, counterbalance forklifts and rough terrain forklifts. Trainees will receive comprehensive instruction on how to successfully present theory, coach, evaluate and test operators. Our Train the Trainer programs are not make or model specific; our training covers concepts common to most types of aerial lifts and forklifts. (Certification Period: 36 months).

Prerequisite/s: Operator Knowledge of Forklifts, Aerial Boom Lift and Scissor Lifts

Member Card Abbreviation: United Academy Core 4 TTT

Hour/s: 2.5

**FTI 1133 Introduction to
Chemical and Physical
Properties of Hazardous
Materials (sunset – code no
longer used)**

This course presents the basics of chemical and physical properties of hazardous materials, including basic chemistry concepts. The course will develop a solid foundation of understanding as to how chemicals behave in the environment, and how that information affects worker health and safety. Topics covered include learning what chemical and physical properties of chemicals are, behaviors of chemicals as they related to worker health and safety, use of the NIOSH Pocket Guide for protecting workers and applying chemical and physical properties of hazardous materials to worker protection. This course includes a small group activity to practice applying what you have learned to protecting workers.

**FTI 1134C American Heart
Association Heartsaver Master
Instructor (CERTIFICATION)**

Hour/s: 32

This course is for Instructor candidates who have interest in the ability to certify and monitor new and renewing Heartsaver CPR & FA instructors. Candidates must have a minimum of two-year experience as a certified American Heart Association Heartsaver Instructor (Certification Period: 24 months).

Requirements:

- 1. Hold an active American Heart Association Heartsaver Instructor Card.*
- 2. Attend a Master Instructor Training Course including teach back portion with Cascade Training Internal Master Instructor.*

COURSE

DESCRIPTION

FTI 1135C NCCCO Mobile Crane (CERTIFICATION)



Hour/s: 48

The course consists of the Written Examination and Practical Examination Outline. The Core examination portion of the NCCCO Written Examination test the following knowledge relating to the operation of mobile cranes: Site, Operations, Technical Knowledge, and Load Charts.

The Practical Exam tasks are Pre-Operational (Shift) Inspection, Place Chain in Stop Circle, Follow Hand Signals, Place Ball in Barrells, Negotiate Zigzag Corridor with Test Weight, and Safe Shutdown and Securing Procedures (Certification Period: 60 months).

After 60 months, an individual is required to re-certify. For re-certification, they must take a re-certification written exam and attest to 1000 hours of crane-related experience. If they do not meet the experience requirement, they must take the practical exam again.

For more information, check the document at http://www.nccco.org/docs/default-source/handbooks-forms-2016/mobile-crane-operator---candidate-handbook_0616b5039c4ada8165a8a834ff0000a517ec.pdf?sfvrsn=2.

FTI 1136 United Academy Fall Protection TTT (sunset – code no longer used)



Hour/s: 32

This Train-the-Trainer program will provide trainers with the materials and base information necessary to deliver the ½ day Basic and the full day Standard fall protection end user programs. Once a trainer has completed the Train-the-Trainer program, they will need to spend time becoming more familiar with the information, materials & demonstrations prior to delivering their first course. It is a program delivery standard that trainers teach the program as it is designed, including covering all of the prescribed material, following all the lesson plans and adhering to course requirements.

FTI 1137 Temporary Work Platforms Train-the-Trainer (Safway/Safespan) (sunset – code no longer used)

Hour/s: 24

This course will provide participants with the knowledge and skills necessary to properly erect, use and dismantle two distinct temporary work platform systems manufactured by Safway and Safespan. Both leaders in the scaffolding industry, this training program provides a better understanding of the select types (manufacturers) of temporary work platforms, as well as a basic safety awareness and necessary theoretical and practical skills beneficial to these two systems.

Prerequisite: COR 1165C Temporary Work Platforms - Safety Awareness

COURSE	DESCRIPTION
FTI 1138C ICRA Worker Train-the-Trainer (CERTIFICATION)	<p>Hour/s: 24</p> <p>The Infection Control Risk Assessment (ICRA) Worker Train-the-Trainer (TTT) course sponsored by the Center for Construction Research and Training is a three-day training is designed to prepare instructors to teach about ICRA controls, work practices, and methods to build and maintain temporary ICRA containments. At the completion of the Train-the-Trainer, instructors will be able to teach both the CPWR 8-hour ICRA Awareness and the 16-hour ICRA Worker courses for workers who are performing construction in healthcare facilities (Certification Period: Permanent)</p> <p>Member Card Abbreviation: ICRA Worker TTT</p>
<i>FTI 1139C OVERTON Fall Protection - Instructor Refresher (CERTIFICATION) (sunset – code no longer used)</i>	<p><i>Hour/s: 1.5</i></p> <p><i>This Overton Fall Protection - Instructor Refresher is a 90-minute webinar hosted by FTI and lead by Overton Safety personnel (Certification Period: 36 months).</i></p> <p><i>Member Card Abbreviation: OVERTON Fall Protection Inst</i></p>
<i>FTI 1140 Temporary Work Platforms Train-the-Trainer (Rigid-Hybrid-Flexible Systems) (sunset – code no longer used)</i>	<p><i>Hour/s: 24</i></p> <p><i>Participants will review the Temporary Work Platform system awareness video and discuss the flexible platform system. After completing the course, instructors will erect and dismantle temporary work platform systems in accordance with the guidelines and safe work practices of Safway and Safespan manufacturers.</i></p> <p><i>8-hour Safespan (hybrid)</i></p> <p><i>8-hours Safway (rigid)</i></p>
FTI 1141 Changing the Culture of Construction	<p>Hour/s: 16</p> <p>This training is designed to inform and empower the construction industry by separating fact from fiction and encourage our workforce to choose proactivity when it comes to behavioral health issues and addictions. Our goal is to educate individuals, in turn promoting a healthy, safe, and substance free working environment.</p>

COURSE	DESCRIPTION
FTI 1142C OSHA 5402 - Maritime Outreach Trainer Update (sunset – code no longer used)	<p><i>Hour/s: 24</i></p> <p><i>Students will be able to demonstrate continued professional development in their field by applying effective adult learning principles and interactive training techniques to clearly identify, define and explain maritime industry hazards and acceptable corrective measures in accordance with the 29 CFR 1915, 1917, 1918 and 1919 OSHA Maritime Standards as they continue to teach 10-hour and 30-hour OSHA outreach courses. Prerequisites: OSHA #5400 Trainer Course for the Maritime Industry (Certification Period: 48 months)</i></p>
FTI 1143 SLI Mobile Elevated Work Platform (MEWP) (sunset – code no longer used)	<p><i>Hour/s: 16</i></p> <p><i>This two-day training course will cover a product overview and six modules of product knowledge, including activities and other materials to supplement and reinforce learning. The product overview will include the benefits of VR training, as well as safety precautions to be taken during use and handling, and modules one through six will include training on choosing/preparing a location for setup, hardware and software setup and calibration, the onboarding of a trainee and training session conduction, storage and transportation with sections on unpacking and packing the wooden crate, and finally a section dedicated to troubleshooting.</i></p>
FTI 1144C NCCCO Signalperson Refresher (CERTIFICATION)	<p><i>Hour/s: 8</i></p> <p>NCCCO will conduct a one-day event for the CCO Signalperson (SGP) Practical Examiner Accreditation Program (PEAP) workshop. To be eligible to attend the Signalperson Practical Examiner Accreditation Workshop you must be certified in the Signalperson program (Certification: 48 months).</p>
FTI 1145 PCB Awareness TTT	<p><i>Hour/s: 8</i></p> <p>This 8-hour PCB awareness course will focus on the group of toxic chemicals called Polychlorinated Biphenyls (PCB) and what they mean for IUPAT member's health as well as what role they play in painting and allied trades work. The course will touch on what PCBs are and how they harm workers, workers families, the public and the Environment. Course time will also be dedicated to reviewing how prevalent PCB containing building materials are in relation to IUPAT work and what the regulatory and training requirements are for conducting renovation/repair work and abatement operations on buildings and structures that may contain these harmful materials. The course will conclude with a section dedicated to basic hazard controls and where IUPAT members can go for further training, including PCB abatement training.</p>

COURSE**DESCRIPTION**

FTI 1146 Heat Stress (sunset – code no longer used)

Hour/s: 3

In this course, you will learn about the basics of heat stress and heat related illnesses in the work environment. It will review what heat stress is, who is affected, case studies, heat related illnesses, regulations/guidance related to heat stress, how to assess heat stress in the work environment and how to reduce workers risk to suffering from heat related illnesses. A small group, hands-on activity assessing heat stress will conclude the course.

FTI 1147 Infectious Disease/ICRA/COVID-19 Awareness (sunset – code no longer used)

Hour/s: 4

Participants in this course will learn and discuss vital health and safety awareness and best practices for ensuring safety of all workers on the construction worksite with emphasis on infectious disease (ID) awareness, COVID-19 awareness and a working knowledge of Infection Control Risk Assessment (ICRA) procedures for properly performing healthcare or other occupied facility construction, maintenance and renovation tasks.

FTI 1148 MEWP - ANSI A-92 Supplement (sunset – code no longer used)

Hour/s: 1.5

The course was designed to meet the new provisions under the ANSI A-92 changes implemented in January 2020. This course is a supplement to the pre-requisite training (FTI 111C OVERTON Rigging-Lifts-Forklift-Hand Signaling) offered by the iFTI.

FTI 1149 Introduction to Toxicology for Occupational Health and Safety (sunset – code no longer used)

Hour/s: 3

This is Train- the- Trainer course on toxicology is designed to give participants a foundational understanding of how chemicals affect the body. Trainers can utilize the practicality of this course when teaching various COR classes under the Health and Safety topics related to work safety and exposures. Topics covered include how chemicals enter and distribute throughout the body, toxicological principles of how chemicals cause harm, how chemicals are eliminated and how toxicology relates to occupational health and safety. The course is designed for three hours with facilitated lecture and a small group activity to reinforce the toxicological concepts covered and allow participants to apply what they have learned. This course will help to develop a better understanding of chemical harm in relation to occupational health and safety issues such as hazard communication, worker exposure limits and hazard control measures. Health and safety representatives will benefit from this course as well as the general membership as their general understanding of chemical harm will be increased.

COURSE	DESCRIPTION
<i>FTI 1150 Infection Control Risk Assessment (ICRA) Awareness TTT - Level 2 (sunset – code no longer used)</i>	<p>Hour/s: 16</p> <p>Prerequisite: FTI 1129 Infection Control Risk Assessment (ICRA) Awareness (TTT)</p>
<i>FTI 1151 Radiological Fundamentals (sunset – code no longer used)</i>	<p>Hour/s: 3</p> <p>The course will review the fundamentals of radiation; which is the foundation of radiation protection. Participants completing this course will leave with a solid understanding of what radiation and radiological materials are and are not. Methods for teaching and incorporating radiation concepts into HAZWOPER and other health and safety courses will be discussed. There will be short review activity with this course. This course satisfies the Department of Energy's (DOE) Rad. Worker II radiological fundamentals requirements. This course will be a benefit to trainers who deliver health and safety related courses or to IUPAT members who have health and safety responsibilities at their DC or LU as well as those who may work around radiological materials (e.g. ship building, DOE sites, areas where radiological sources are used).</p>
<i>FTI 1152 Biological Effects of Radiation (sunset – code no longer used)</i>	<p>Hour/s: 3</p> <p>The course will review the fundamentals of radiation effects on the human body. Current scientific concepts and misconception of radiations effects of radiation will be presented and discussed. Participants will develop a solid understanding of radiation exposure and dose affects human biology. Methods for teaching and incorporating these concepts into HAZWOPER and other health and safety courses will be discussed. There will be short review activity with this course to reinforce material. This course will be a benefit to trainers who deliver health and safety related courses or to IUPAT members who have health and safety responsibilities at their DC or LU as well as those who may work around radiological materials (e.g. ship building, DOE sites, areas where radiological sources are used).</p>
FTI 1153C American Heart Association Heartsaver Master Instructor Refresher (CERTIFICATION)	<p>Hour/s: 12</p> <p>Refresher for FTI 1134C American Heart Association Heartsaver Master Instructor (CERTIFICATION) - This course is for Instructor candidates who have interest in the ability to certify and monitor new and renewing Heartsaver CPR & FA instructors. Candidates must have a minimum of two-year experience as a certified American Heart Association Heartsaver Instructor (Certification Period: 24 months).</p>

COURSE	DESCRIPTION
FTI 1154 Peer Support	<p>Hour/s: 20</p> <p>The IUPAT's Peer Support program is a 2-1/2-day education and training workshop that will include information, discussions and activities pertaining to the impact of substance use and mental illness on the brain, suicide prevention, your role as a peer supporter, ethics and confidentiality, employee assistance programs (EAP's) and more.</p>
FTI 1155C OSHA 503 Update for General Industry Outreach Trainers (CERTIFICATION)	<p>Hour/s: 32</p> <p>This course is designed for Outreach Training Program trainers who have completed course OSHA 501 Trainer Course in Occupational Safety and Health Standards for General Industry and who are authorized trainers in the OSHA Outreach Training Program. The course provides an update on OSHA General Industry Standards, policies, and regulations. Upon course completion students will have the ability to demonstrate continued professional development in their field by applying effective adult learning principles and interactive training techniques to clearly identify, define, and explain general industry hazards and acceptable corrective measures as they continue to teach the 10- and 30-hour General Industry Outreach Training Program classes. 1.8 Continuing Education Units. Pre-requisites for OSHA 503: OSHA 501 Trainer Course in Occupational Safety and Health Standards for General Industry. Outreach trainers are required to attend this course once every four years to maintain their trainer status (Certification Period: 48 months).</p>
<i>FTI 1156 Lead Awareness (sunset – code no longer used)</i>	<p>Hour/s: 2</p> <p><i>This is a lead awareness course that contains a closer look at its prevalence in the work and public environments. It will also present a toxicological profile of lead, increasing participants understanding of why they should avoid exposure. The course will review pertinent worker protections through a review of the general industry and construction standards, and present an example lead control plan for work on superstructures.</i></p>
<i>FTI 1157 ETCP Hoist and Rigging (sunset – code no longer used)</i>	<p>Hour/s: 32</p> <p><i>This 4-day hands-on training covers entertainment rigging fundamentals and the use and maintenance of electric chain hoist motors. This training will encompass rigging terms, loads, design factors, hardware and wire rope use and inspection. Additionally, a review of fall protection, ropes and knots, varieties, inspection, calculations of truss and convention center rigging basics, as well as use and study of electricity of a hoist (in accordance with AMSE B30.16 and ANSI E1.6-2 safety standards); and the use and maintenance of chain motors used in arena, tradeshow and theater settings. The purpose of this training is to provide necessary skills and knowledge for the tradeshow worker to build upon experiences on the field of work to be successful on the ETCP exam.</i></p>

COURSE	DESCRIPTION
FTI 1158 Health and Safety Instructor Symposium	Hour/s: 16 A symposium for current and future health and safety instructors, coordinators, or those interested in health and safety.
FTI 1159 ---Not yet Assigned	Hour/s: X XXX
FTI 1160C OSHA 511 Occupational Safety and Health Standards for General Industry (CERTIFICATION)	Hour/s: 32 This course covers OSHA Standards, policies, and procedures in general industry. Topics include scope and application of the OSHA General Industry Standards, general industry principles and special emphasis on those areas in general industry which are most hazardous. Upon course completion students will have the ability to define general industry terms found in the OSHA General Industry Standards, identify hazards which occur in general industry, locate and determine appropriate OSHA General Industry Standards, policies, and procedures, and describe the use of OSHA General Industry Standards and regulations to supplement an ongoing safety and health program. Earn 2.6 Continuing Education Units. This course is the prerequisite for OSHA 501 (Certification Period: 48 months).
FTI 1161 ---Not yet Assigned	Hour/s: X XXX
FTI 1162 Occupational Noise and Hearing Loss	Hour/s: 8 This course will cover what sound and noise is and how it behaves, how hearing can be damaged hearing and different types of hearing disease, OSHA noise regulations and how to measure and control noise. This class will include multiple small group and hands-on activities including using sound level meters to measure noise from different sources, construct and evaluate engineering noise controls and evaluate a hearing conservation program. <i>NOTE: There is a COR 1162 code that can be assigned to students.</i>
FTI 1163-1164 ---Not yet Assigned	Hour/s: X XXX

COURSE	DESCRIPTION
FTI 1165C Mobile Elevated Working Platform (MEWP) (CERTIFICATION)	<p>Hour/s: 32</p> <p>The intent of the MEWP training is to provide a comprehensive training program covering aerial lifts including Boom Lifts, Scissor Lifts and Truck Mounted Bucket Lifts which are used by union members. The course will address the federal requirements as outlined under OSHA 1926.21 Safety & Training Education; 1926.453 Aerial Lifts, and 1926.503 Fall Protection and the American National Standards Institute (ANSI)/ Scaffold & Access Industry Association (ANSI/SAIA) A92 Standards.</p>
FTI 1166-1172 ---Not yet Assigned	<p>Hour/s: X</p> <p>XXX</p>
FTI 1173C Scaffold Worker-Erector-Dismantler (CERTIFICATION)	<p>Hour/s: 40</p> <p>The intent of the scaffold training is to provide a comprehensive training program covering scaffold equipment including suspended scaffold, slung scaffold, free standing scaffold, catenary scaffold, putlog scaffold and independent tied scaffold used by union members. The course will address the federal requirements as outlined under OSHA Subpart L - Scaffolds, 1926.450-452, 1926.454 and the ANSI/ASSP A10.8-2019 Scaffolding Safety Requirement.</p>
FTI 1174-1184 ---Not yet Assigned	<p>Hour/s: X</p> <p>XXX</p>
FTI 1185 Lead Awareness TTT	<p>Hour/s: 8</p> <p>Lead continues to be a significant exposure risk in the United States, not just to IUPAT members in the finishing trades but to lead-exposed workers in many industries and the general public whose activities or home-environment may be a provide lead-exposure risk. If you consider the typical IUPAT members' trades and work activities, you can imagine lead exposure to be both a short and long-term concern.</p> <p><i>Student Version Course Code - COR 1185S Lead Awareness 4-hour (Student Access)</i></p>
FTI 1186 ---Not yet Assigned	<p>Hour/s: X</p> <p>XXX</p>

COURSE	DESCRIPTION
FTI 1187C Permit Required Confined Space Entry (CERTIFICATION)	<p>Hour/s: 24</p> <p>This 24-Hour training is specifically designed to meet the needs of IUPAT members in their trades. Through this functional and interactive training, students will develop skills and knowledge to recognize the hazards and implement permit-required (permitted) confined space hazard controls. Students will also learn the skills to enter permit-required confined spaces and perform confined space non-entry rescue. *This course does not constitute the requirements for OSHA Course #2260 Permit-Required Confined Space Entry (Certification Period: Permanent).</p>
FTI 1188-1199 ---Not yet Assigned	<p>Hour/s: X</p> <p>XXX</p>
FTI 120C Forklift Instructor/Evaluator (CERTIFICATION)	<p>Hour/s: 8</p> <p>This is an 8-hour course will assist in meeting the appropriate sections of ANSI Z490.1 training standard. The workshop, curriculum, instructor/evaluation instruction, topics, and training materials along with a combination of the attendees' prior experience and knowledge will assist in complying with the qualifies instructor/evaluator requirements to provide internal training and evaluation of the employees as prescribed by applicable Federal Laws, State codes, ANSI Z490.1, EM384-1-1 and DOE codes of this issue date (Certification Period: 36 months). Student Course Code - CORC 120C Forklift (CERTIFICATION)</p>

Leadership

COURSE

DESCRIPTION

<i>FTI 1200 IUPAT Top Down Sales Training (sunset - code no longer used)</i>	<p><i>Hour/s: ?</i></p> <p><i>In this course, participants will learn about the strategies involved in Top Down Sales Training as it pertains to the Union Construction Industry.</i></p>
<i>FTI 1201 IUPAT Leadership Series I (sunset - code no longer used)</i>	<p><i>Hour/s: 40</i></p> <p><i>This forty (40) hour course provides professional development opportunities for IUPAT District Council Business Manager/Secretary-Treasurers, Business Representatives, Agents and Organizers to assist them in their duties at the District Council / Local Union Level. This course is divided into three distinct learning modules: Strategic Negotiation Skills, Public Works Compliance Strategies, and Employee Benefit Plans.</i></p>
<i>FTI 1202 IUPAT Leadership Series II (sunset - code no longer used)</i>	<p><i>Hour/s: 40</i></p> <p><i>This forty (40) hour course provides professional development opportunities for IUPAT District Council Business Manager/Secretary-Treasurers, Business Representatives, Agents and Organizers to assist them in their duties at the District Council / Local Union Level. This course, using a blend of classroom instruction and hands-on applications (via computer), is divided into five distinct learning modules: Service Directors Training, IUPAT Organizing Structure, Preventative Law for Union Campaigns, and Use of the IUPAT's Enhanced Integrated Membership System (IMSe).</i></p>
<i>FTI 1203 BTA 101: Strategic Planning (sunset - code no longer used)</i>	<p><i>Hour/s: 38</i></p> <p><i>This course is intended to help union locals and building trades councils effectively manage their organizing activities and to efficiently use union resources. This course covers the developing and applying a full strategic plan. Specifically, participants will review basic concepts of research, analysis and strategic planning for construction organizing. Participants will take part in a series of interactive, small-group exercises centered on a realistic case study.</i></p>
<i>FTI 1204 BTA 102: Closing the Deal (sunset - code no longer used)</i>	<p><i>Hour/s: 38</i></p> <p><i>There is nothing more effective than the face-to-face communication for building relationships with contractors and owners. This course prepares building trades organizers to conduct effective in-person meetings with non-union contractors both inside and outside of the context of organizing. Participants review communication strategies and practice relationship building through one-on-one conversation.</i></p>

COURSE**DESCRIPTION**

FTI 1205 BTA 103: Getting the Word Out (sunset - code no longer used)

Hour/s: 38

For the first time, Facebook surpassed Google as the most visited and searched website in the world. Its membership exceeded half a billion users (roughly 30% of the world's population). The exponential growth of Facebook, as well as other digital communications platforms, demonstrates how communication has changed and expanded in the past few years. This course shows how these new communications platforms, including social communities and blogs, can improve the effectiveness of organizing efforts. Other topics include: developing messages for members, workers, contractors, owners, the news media, and the public and the various tools and techniques for delivering those messages.

FTI 1206 BTA 104: Campaign Organizing (sunset - code no longer used)

Hour/s: 38

This course offers a comprehensive overview of organizing issues related to the construction industry, offering constructive ways to organize the industry, including the value proposition for members, contractors and construction owners. In addition to concentrating on issues related to workforce organizing (e.g. identifying, contacting, and communicating with unrepresented workers), participants will learn how to identify leaders and build worker committees. One-on-one skills, overall communications strategies and framing issues will also be addressed in this program. Furthermore, the course instructor will explain how organizing has evolved and changed over time, with special emphasis on the value proposition inherent in a union workforce such as joint apprenticeship, codes of conduct, safety and other benefits to a contractor/owner.

FTI 1207 BTA 105: Contract Negotiations in the Construction Industry

Hour/s: 38

This course is for union officers and staff members who negotiate labor agreements with their signatory contractors. This course covers a wide spectrum of activities related to the development of a contract which meets the needs of their members--from drafting initial proposals to gaining support during the ratification process (and various steps in between). In addition, it will inform participants about alternative ways contracts can be bargained and the consequences associated with them. A full review of legal developments as they apply to and affect bargaining in the construction industry will also be presented and discussed. Also included is a discussion on the usefulness to improve productivity and safety, of the establishment of joint Labor-Management Committees under the Labor-Management Cooperation Act of 1978. The course also includes discussions led by contractor negotiators to more fully understand the perspectives of employers. The legal framework of multi-employer bargaining in the construction industry is fully explored. The session will culminate with students participating in a mock bargaining session.

COURSE	DESCRIPTION
FTI 1208 BTA 106: Labor Law in the Construction Industry	<p>Hour/s: 38</p> <p>Federal labor law provides special provisions applicable to the construction industry because of the unique nature of employment in construction. This construction labor law course will be taught by experienced building trades legal counsel specializing in construction labor law to better prepare participants to make informed decisions on organizing, collective bargaining and when to seek legal counsel.</p>
<i>FTI 1209C Program Leadership Series Training Completion (CERTIFICATION) (sunset - code no longer used)</i>	<p>Hours: 320</p> <p><i>This seventeen academic credit hour program provided professional development for IUPAT DC/LU Leaders to assist them in their administrative duties and leadership responsibilities at the DC/LU level. Courses, co-sponsored by the IUPAT and the BTA, include: FTI 1201 IUPAT Leadership Series I, FTI 1202 IUPAT Leadership Series II, FTI 1203 BTA 101: Strategic Planning, FTI 1204 BTA 102: Closing the Deal, FTI 1205 BTA 103: Getting the Word Out, FTI 1206 BTA 104: Campaign Organizing, FTI 1207 BTA 105: Contract Negotiations in the Construction Industry and FTI 1208 BTA 106: Labor Law in the Construction Industry (Certification Period: Permanent).</i></p>
<i>FTI 1210 The IUPAT Integrated Membership Services Enhanced (IMSe) (sunset - code no longer used)</i>	<p>Hour/s: 16</p> <p><i>This course is designed to introduce participants to the IUPAT's Integrated Membership Services Enhanced (IMSe). In this course participants will learn how to use the IUPAT's IMSe, in particular, how to create reports to track apprentices' progress, create transcript reports, and create reports for the Department of Labor (DOL). This target audience for this course includes, Training Coordinators, Training Directors, and those individuals responsible for managing the database for apprentices.</i></p>
<i>FTI 1211 Organizing Summit (sunset - code no longer used)</i>	<p>Hour/s: 32</p> <p><i>Collaboration of the ROCs and District Council Organizing Directors to discuss best practices in Organizing.</i></p>

COURSE**DESCRIPTION**

FTI 1212 Supervisor Training Program (STP) TTT (sunset - code no longer used)

Hour/s: 24

This program is designed to strengthen the abilities of project supervisors at all levels. It is appropriate for newer supervisors/foremen to broaden their understanding of the responsibilities of their job and to provide tools and techniques to better fulfill those responsibilities. It is appropriate for experienced supervisors to update their understanding of supervision, to strengthen their skills in traditional areas, and to develop new skills in emerging areas. The program is designed for considerable interaction among participants, encouraging them to learn from one another. It provides ample opportunities for large and small group interactions, as well as practice of skills important to the supervisors.

The course is open to all field supervisors, foremen and those who anticipate fulfilling these roles in the near future. A management representative of the employer is encouraged to attend the course along with their sponsored employees.

FTI 1213 Leadership and Communication for DOTs/Coordinators (sunset - code no longer used)

Hour/s: 32

This human interaction lab introduces the students to the use of self-concept, as related to classroom management, staff development, group facilitation, and team building. This course will facilitate the integration of your personal experiences into a framework that enhances the development of your professionalism, integrity, and responsibility. You will be expected to be full participants in discussions, disclosure, and exercises for this class.

FTI 1214 Financial Officer Training

Hour/s: 32

This course is designed to teach Financial Officers and/or anyone involved with the recordkeeping and membership services of the IUPAT's District Councils and Local Unions how to use the IUPAT's Integrated Membership Services (IMS) to perform their responsibilities of safeguarding and accounting for the funds of their Locals easily and correctly. Specific topics that will be covered in this course include: local union officer's financial responsibilities, record keeping requirements, and constitutional sections related to member activity.

FTI 1215 Leadership TTT (sunset - code no longer used)

Hour/s: 32

The overall theme of the leadership series is Tackling Leadership in a New Way. The purpose of this training is to raise the level of excellence in leadership for our future. There are four (4) unique sessions offered at the FTI in Hanover.

Session #1: Adaptive Leadership

Session #2: Leaders Constantly Assess Performance

Session # 3: Leaders are KAV Kinesthetic, Auditory & Visual

Session #4: Leadership Gives Recognition and Takes Responsibility

COURSE**DESCRIPTION****FTI 1216 Organizing Leadership
Series I**

Hour/s: 40

This course is a comprehensive overview of organizing issues related to the construction industry, offering constructive ways to organizing the industry, including the value proposition for members, contractors and construction owners. In addition to concentrating on issues related to workforce organizing (i.e. identifying, contacting, and communicating with unrepresented workers), participants will learn how to identify leaders and build worker committees. One-on-one skills, overall communications strategies and framing issues will also be addressed in this program. Furthermore, the course instructor will explain how organizing has evolved and changed over time. This course is intended to help District Councils effectively manage their organizing activities and to efficiently use union resources. Specifically, participants will review basic concepts of research and analysis. Participants will take part in a series of interactive, small-group exercises centered on a realistic case study.

**FTI 1217 Organizing Leadership
Series II**

Hour/s: 40

There is nothing more effective than the face-to-face communication for building relationships with the contractors and owners. This course prepares IUPAT servicing reps and organizers to conduct effective in-person meetings with non-union contractors both inside and outside the content of organizing. Participants review communication strategies and practice relationship building through one-on-one conversation. Other topics include developing messages for the news media and the public, and the various tools and techniques for delivering those messages. The exponential growth of Facebook, as well as other digital communications platforms, demonstrates how communication has changed and expanded in the past few years. This course shows how these new communications platforms, including social communities and blogs, can improve the effectiveness of organizing efforts. Specifically, participants will review basic concepts of research, analysis and strategic planning, develop, and present a comprehensive organizing plan while applying all of the appropriate tactics taught in this (and previous) classes.

**FTI 1218 Leadership
Development**

Hour/s: 40

This final core curriculum class will round out the Leadership series. This course will focus on the IUPAT District Council organizational structure, and time management. You will be able to recognize and learn how to deal with Burnout. The Adaptive Leadership training will help embrace the diversity of the workforce. The Public Speaking and Soft skills/Leadership styles will make you a more effective Labor Leader.

COURSE**DESCRIPTION****FTI 1219 Collective Bargaining in the Construction Industry (sunset - code no longer used)***Hour/s: 40*

This course is for IUPAT officers and staff members who negotiate collective bargaining agreements with their signatory contractors. This course covers a wide spectrum of activities related to the development of a contract, which meets the needs of their members - from drafting initial proposals to gaining support during the ratification process (and various steps in between). In addition, it will inform participants about alternative ways contracts can be bargained and the consequences associated with them. A full review of legal developments as they apply to and affect bargaining in the construction industry will also be presented and discussed. Also included is a discussion on the usefulness to improve productivity and safety, of the establishment of joint Labor-Management Committees under the Labor-Management Cooperation Act of 1978. The course also includes discussions led by contractor negotiators to more fully understand the perspectives of employers. The legal framework of multi-employer bargaining in the construction industry is fully explored. The session will culminate with students participating in a mock bargaining session.

FTI 1220 Communications and Digital Media**Hour/s: 40**

For the IUPAT, an aggressive public relations strategy is not an option; it is a mandate. From organizing to political action to gaining new work for our members, building positive support from the public is vital to the future of the IUPAT. A positive public image can translate into more work, more organizing victories, and a better relationship with elected officials. Implementing a comprehensive media strategy is important to effectively communicate with our members, customers, and communities and build a positive image for the IUPAT and the labor movement. The information in this course is designed to help IUPAT, BM/ST's, staff, and members develop their own communications program and get started on crafting a pro-worker message to grow our membership and win the online and offline battle for public opinion.

FTI 1221 Labor Law in the Construction Industry**Hour/s: 40**

Federal labor law provides special provisions applicable to the construction industry because of the unique nature of employment in construction. This construction labor law course will be taught by experience building trades legal counsel specializing in construction labor law to better prepare participants to make informed decisions on organizing, collective bargaining, and when to seek legal counsel.

With Canadian version in the LMS - CAN 1208 Labor Law in the Construction Industry (Canada)

COURSE	DESCRIPTION
FTI 1222 Top-Down Organizing	<p>Hour/s: 40</p> <p>This course is designed to help the participant to communicate better with customers. Whether person-to-person, a brochure, a website, or any other medium, your customer communications play a vital role in the success of Top-Down Organizing. We have set up an immense amount of information, resources, and templates to help you improve your customer communication and the overall image of the IUPAT.</p>
FTI 1223 Industrial Organizing	<p>Hour/s: 40</p> <p>The marine and industrial coatings industry is a primary target for growth within the IUPAT. The industry is complex with many different facets including public bridges, highways, water and wastewater facilities, and other infrastructure needs. The industry also has many private elements such as power plants, refineries, and mills.</p>
FTI 1224 Bottom-Up Organizing	<p>Hour/s: 40</p> <p>Every Bottom-Up (worker driven) Organizing campaign begins because one person decides to step forward and try to make changes to his or her job. It is up to the District Council's organizers to identify and contact as many such individuals as possible. Then the target is researched, and a decision is made to develop a strategic organizing plan. This course will give you the tools to complete those tasks. This course is an off-site training class to be held at a District Council that has an ongoing Bottom-Up Organizing campaign.</p>
FTI 1225 Advanced Service Training 101	<p>Hour/s: 40</p> <p>The Advanced Service Training 101 and 102 are comprehensive training classes that take you beyond the normal functions of a local servicing representative. This is a two-part class with a three to four-month intermission. This course is designed to make the IUPAT Service Representative the best, most knowledgeable grassroots activist who will help determine the strategic direction of their District Council.</p>
FTI 1226 Advanced Service Training 102	<p>Hour/s: 40</p> <p>The Advanced Service Training 101 and 102 are comprehensive training classes that take you beyond the normal functions of a local servicing representative. This is a two-part class with a three to four-month intermission. This course is designed to make the IUPAT Service Representative the best, most knowledgeable grassroots activist who will help determine the strategic direction of their District Council.</p>

COURSE	DESCRIPTION
<i>FTI 1227 C.O.R.E./Legislative Communication (sunset - code no longer used)</i>	<p>Hour/s: 40</p> <p>Grassroots organizing is needed now more than ever before. Far too many people are withstanding the worst of serious social problems. For example, homelessness, violence, drug abuse, and poverty have increased dramatically in recent years. Politics in the United States centers on the question of power - who is in control, what policies they pursue, and on behalf of which constituencies. The attack on working families and Unions are at an all-time high. This course will enable you to make real changes in your community, for your members, and for the labor movement as a whole.</p>
<i>FTI 1228 Communication Skills and Affiliate Servicing (sunset - code no longer used)</i>	<p>Hour/s: 12</p> <p>Communication Skills and Affiliate Servicing go hand in hand. This program will be made up of interactive exercises to re-enforce the message that quality affiliate servicing and excellent communication skills are key to attracting and keeping the business iFTI wants to have for their members to execute. As the industry changes; so too must administrative staff embrace change. The administrative responsibility is to be prepared to meet the demands of iFTI initiatives.</p>
<i>FTI 1229 International Foundation Diversity and Inclusion for the United States (sunset - code no longer used)</i>	<p>Hour/s: 2</p> <p>Participants will learn the terms, concepts, skills and knowledge needed to develop and lead an inclusive and diversified workforce. Topics will include important terms related to culture, diversity and inclusion; diversity in context of race/religion/sexual orientation; intercultural confidence and competence, healthy and diverse teams, and moral and ethical leadership.</p>
FTI 1230 International Foundation Diversity and Inclusion for Canada	<p>Hour/s: 2</p> <p>Participants will learn the terms, concepts, skills and knowledge needed to develop and lead an inclusive and diversified workforce.</p> <p>Diversity and Inclusion in Canada will include discussion and information on the following topics: culture, diversity and inclusion.</p>
FTI 1231-1233---Not yet Assigned---	<p>Hour/s: X</p> <p>X</p>

COURSE	DESCRIPTION
FTI 1234 Thinking Like a Leader	<p>Hour/s: 8</p> <p>Thinking like a leader means balancing the needs of the team with the mission of the organization to maximize results. In this session, participants learn the foundations of leadership, and how to leverage what they know, and who they are to maximize the effectiveness of what they do.</p>
FTI 1235 Strategic Thinking	<p>Hour/s: 16</p> <p>Strategic leaders drive results based on the mission and vision of the organization. In this course, managers and leaders will learn how to develop strategic objectives based on the market forces and internal strengths and weaknesses they face. The course emphasizes the importance of a strong vision and aligning plans and resources to optimize chances for success. Participants are encouraged to bring a current challenge to class that can serve as their own case study. By incorporating project-based learning, real world examples and interactive learning strategies, participants gain a thorough understanding of the strategic planning process and a plan that they can use to drive real-world results.</p>
FTI 1236-1237---Not yet Assigned---	<p>Hour/s: X</p> <p>XXX</p>
FTI 1238 Leadership Training for Women in the Construction Industry	<p>Hour/s: 40</p> <p>The purpose of the 2-day planning/meeting is to design a training experience for women in the construction industry who are transitioning or plan to transition to various leadership levels within their organization. Though somewhat small, the number of women in leadership positions in the construction industry is increasing. It is well established by women who are already leading the way, that the road is personally and professionally challenging. Many of these challenges can be addressed through an increase in knowledge, skills, and abilities which can be learned and practiced on the job. A leadership training specially designed for women is an effective way to jump-start and support both learning and practice. The outcome of the 2-day planning/meeting will be a content outline of the upcoming training (educational) experience, logistics of its structure, post-training support system, and next steps needed to further the planning effort.</p>

COURSE	DESCRIPTION
FTI 1239 NLRB Election	<p>Hour/s: 32</p> <p>In this course, participants will learn how the National Labor Relations Act (The Wagner Act), The Labor-Management Relations Act (Taft-Hartley) affect Union Leaders when Organizing new contractors. Organizers will learn the NLRB Process from governance to agreements. Role plays will teach organizers how to Have transformative Organizing Conversations, How to combat Anti-Union Campaigns – utilizing war rooms and power mapping. This course can also include Organizer field practice and field work.</p>
FTI 1240-1241---Not yet Assigned---	<p>Hour/s: X</p> <p>XXX</p>
FTI 1242 IUPAT Leadership Development Program	<p>Hour/s: 8</p> <p>The course includes sessions in Investing in Your Future, Building a Culture of Trust and Accountability, and Dealing with Difficult People and Situations.</p>
029 Black CORE Leadership	<p>Hour/s: 8</p> <p>This is a 2-week in-person training focusing on the common experiences and strengths of Black members. The course provides participants with the support, knowledge and skills to overcome challenges and advance within the Union and their trade. The goal is to produce confident and competent Black foreman, stewards, project managers, district council staff, and much more.</p>
FTI 1244-1299---Not yet Assigned---	<p>Hour/s: X</p> <p>XXX</p>

Coating Application Specialist (CAS)

COURSE

DESCRIPTION

FTI 2000C Coating Application Specialist (CAS) Train the Trainer (CERTIFICATION)
(sunset - code no longer used)

Hour/s: 40

This course has been designed to meet the requirements for a qualified application specialist set forth in the Body of Knowledge contained within the published SSPC ACS-1 Industrial Coating and Lining Application Specialist Qualification and Certification Standard. Students will learn to apply their blaster/applicator skills to the corrosion protection of steel and concrete on complex industrial structures through course work in surface preparation and coating materials, properties, and application. Specialty application course work in plural component and thermal spray will further assist students in expanding their skills (Certification Period: Permanent).

Member Card Abbreviation: SSPC CAS TTT

FTI 2001 AMPP Pipeline Corrosion Introductory Training (PCIT) Program (sunset - code no longer used)

Hour/s: 16

This program is a comprehensive, modularized beginner-level training and assessment program, addressing both pipeline corrosion fundamentals and corrosion Operator Qualification (OQ) tasks. This curriculum is geared for instructors that have little or no experience in pipeline corrosion and require training on basic tasks, such as corrosion OQ covered tasks. PCIT also addresses OQ requalification.

FTI 2002C SSPC Protective Coatings Inspector (PCI) Course (CERTIFICATION)

Hour/s: 48

This course will thoroughly train individuals in the proper methods of inspecting surface preparation and installation of industrial and marine protective coatings and lining systems on an array of industrial structures and facilities. The program's primary objective will be to train IUPAT instructors in the proper methods of inspecting surface preparation and installation of industrial and marine protective coatings and lining systems on an array of industrial structures and facilities, so that they can become a certified Protective Coatings Inspector. There are no prerequisites to attend the PCI course; however, candidates should possess a minimum of three (3) years coating application experience and be prepared for an intense and fast-paced week of training with evening homework and study, in order to cover an extensive amount of information in six (6) days. For additional information visit www.sspc.org/training/pci.html (Certification Period: 48 months).

Member Card Abbreviation: SSPC PCI

COURSE**DESCRIPTION**

FTI 2003C SSPC C-3 Re-Take Exam (CERTIFICATION) (sunset - code no longer used)

Hour/s: 8

This course offers a retake of the SSPC C-3 Exam (Certification Period: Permanent).

FTI 2004C SSPC CAS (CERTIFICATION) (sunset - code no longer used)

Hour/s: 16

This sixteen (16) hour course is designed to teach experienced IUPAT Coating Application Specialists the necessary knowledge, skills and strategies to successfully pass the SSPC Coating Application Specialist written and hands-on examination. The theoretical framework of this course is based on the Finishing Trades Institute's Industrial Applicator Training Program. This course will review the major topics that will be covered on the examination as well as provide students with sample test questions and general test taking strategies to insure that the student is properly prepared for the CAS examination (Certification Period: Permanent).

FTI 2005C Exam & Proctor Orientation & Training (CERTIFICATION) (sunset - code no longer used)

Hour/s: 24

SSPC approves candidates who submit application forms and meet the prerequisites. Candidate proctors must successfully complete a SSPC CAS Proctor Orientation and training course, delivered by the IUPAT/iFTI CAS Program Manager or delegate. This training course must be completed and signed documents submitted to SSPC prior to being approved as a provisional proctor. The training includes; PowerPoint Presentation; review of the SSPC proctor guide, associated standards, attestation, guidance on delivering the written and practical exams, review of a live CAS exam, proctor kit inventory & usage, strategies on being an effective proctor, completion of CAS exam documents, receiving and shipping of exam packet and proctor kit (Certification Period: Permanent).

Member Card Abbreviation: SSPC CAS Exam & Proctor

FTI 2006C AMPP CIP Level II (CERTIFICATION) (sunset - code no longer used)

Hour/s: 48

CIP Level 2 is a six-day course that focuses on advanced inspection techniques and specialized application methods for both steel and non-steel substrates, including concrete (Certification Period: 36 months).

COURSE	DESCRIPTION
FTI 2007C AMPP Pipeline OQ (CERTIFICATION) (sunset - code no longer used)	<p>Hour/s: 16</p> <p>AMPP Operator Qualification (OQ) is a self-paced, online beginner-level training and assessment program geared for employees who have little or no experience in pipeline corrosion (Certification Period: 36 months).</p>
FTI 2008 PCI Re-Take Exam (sunset - code no longer used)	<p>Hour/s: 8</p> <p>This course is for participants who need to re-take the PCI exam.</p>
FTI 2009C SSPC C-3 Supervisor/Competent Person Training for Deleading of Industrial Structures (CERTIFICATION) (sunset - code no longer used)	<p>Hour/s: 32</p> <p>This course emphasizes hands-on experiences. Each day participants practice competent person duties immediately after they are discussed in the classroom, resulting in more interactive discussion between participants and the instructors. Small group settings are used during the workshops to ensure that all participants successfully complete each practical exercise. This course is the first in a series of qualifications for SSPC instructors (Certification: Permanent).</p> <p>Member Card Abbreviation: SSPC C-3 Supervisor/Competent</p>
FTI 2010C SSPC C-7 Dry Abrasive Blasting Training Program (CERTIFICATION) (sunset - code no longer used)	<p>Hour/s: 16</p> <p>This course is designed to certify operators of dry abrasive or portable centrifugal blast cleaning equipment. It covers principles of surface preparation, surface cleanliness, surface profile, dust and debris control, and abrasives. The program's primary focus is the certification of the blasters who demonstrate proper blasting techniques during the hands-on session (Certification Period: 60 months).</p> <p>Member Card Abbreviation: SSPC C-7 Dry Abrasive Blasting</p>
FTI 2011C AMPP CIP Level I (CERTIFICATION) (sunset - code no longer used)	<p>Hour/s: 48</p> <p>CIP Level 1 is offers instruction on the technical and practical fundamentals of coating inspection work for structural steel projects. This course provides students with knowledge of coating materials and techniques for surface preparation and application that prepares the student to perform basic coating inspections using non-destructive techniques and inspection instrumentation.</p> <p>Classroom instruction is comprised of lectures, discussions, group exercises and hands-on practical labs that teach the student how to perform basic inspection tests. A written exam, practical exam, and inspector log book evaluation are given at the end of the course (Certification Period: 36 months).</p>

COURSE	DESCRIPTION
FTI 2012C SSPC CAS Auditor Training (CERTIFICATION) <i>(sunset - code no longer used)</i>	<p>Hour/s: 32</p> <p>This course provides participants with the skills and knowledge to conduct and lead an effective audit pertaining to the activities of the SSPC CAS Proctor during the conduct of the Industrial Coating and Lining Auditor's Examination, both written and hands-on (Certification Period: Permanent).</p>
FTI 2013 Industrial Applicator Train-the Trainer	<p>Hour/s: 32</p> <p>This course has been designed to meet the requirements for a Level II certified Coating and Lining Application Specialist set forth in the Body of Knowledge contained within the SSPC ACS1/AMPP No.13 Joint Standard and in accordance with ISO 17024. Students will learn to apply their theoretical knowledge and skills to the corrosion protection of steel and concrete on complex industrial structures through course work in Health and Safety Awareness for Application Specialists, surface preparation and coating materials properties, and application. Specialty application course work in plural component and thermal spray will further assist students in expanding their skills.</p>
FTI 2014C AMPP Certified Coating Applicator Examiner (CERTIFICATION) <i>(sunset - code no longer used)</i>	<p>Hour/s: 40</p> <p>AMPP CCA Pilot Beta Exam - Designed to pilot test the Coating Applicator hands-on practical exam. Each candidate will be expected to do a thorough walk through to inspect the equipment, demonstrate knowledge of hand and power tools, blast and paint an ASTM panel. Each exam portion is 2.5 hours long and approximately 100 questions (Certification Period: 36 months).</p> <p>Candidates who want to become a Coating Applicator Examiners:</p> <ol style="list-style-type: none"> 1. Minimum of 5 years applicator experience 2. Certified Coating applicator- in the interim they must pass both exams via participating in exam development or the beta exams 3. Must have taken and passed the written/ computer based test (CBT) prior to taking the practical hands on beta exam 4. Attend AMPP examiner training (where they will be administered the practical exam while still in beta testing). The candidate must score at least 80% on the hands on practical to continue with the examiner training 5. Must not be a AMPP Coating Applicator Instructor

COURSE	DESCRIPTION
FTI 2015-2104 ---Not yet Assigned---	Hour/s: XX
FTI 2105C CAS Level I (CERTIFICATION)	<p>Hour/s: 42</p> <p>This part of the CAS program consists of a one-hour written exam. Basic Level I qualification is intended for entry-level/trainee Application Specialists. Level 1 Application Specialists customarily work with and under the supervision of Level 2 and Level 3 Application Specialists (Certification Period: Permanent).</p> <p><i>Student Version Course Code - CAS 2105C CAS Level I (CERTIFICATION)</i></p>
FTI 2106-2608 ---Not yet Assigned---	Hour/s: XX
FTI 2609C Kretus Foundational Skills (CERTIFICATION)	<p>Hour/s: 40</p> <p>Kretus is an international distributor of resinous coatings that is family owned for over 30 years. Kretus is offering application training and certification for members who take their series of classes. This training will cover foundational Skills includes classroom instruction on industry trends, green building sustainability, general product knowledge, application techniques, documentation and jobsite assessments (Certification Period: Permanent).</p>
FTI 2610C Kretus Garage Flooring and More (CERTIFICATION)	<p>Hour/s: 40</p> <p>Kretus is an international distributor of resinous coatings that is family owned for over 30 years. Kretus is offering application training and certification for members who take their series of classes. This training will cover the basics of Epoxy; mixing application, UPC 101, Chip and Quartz Broadcast (Certification Period: Permanent).</p>
FTI 2611-2800 ---Not yet Assigned---	Hour/s: XX
FTI 2801C SSPC C-2 Planning and Specifying Industrial Coatings Projects (CERTIFICATION) (sunset - code no longer used)	<p>Hour/s: 40</p> <p><i>This course is designed to provide those who understand coating fundamentals with an overview of the principles of planning, awarding and monitoring the quality of new construction or maintenance painting projects. After completing this training program, students will be familiar with tools to develop effective coating projects and play a more active role in managing painting projects to successful completion (Certification Period: Permanent).</i></p>

COURSE**DESCRIPTION****FTI 2802 AMPP C3 C5 and 8-Hour Lead Worker TTT**

Hour/s: 24

On the final day participants will demonstrate a 15-20 minute teach back that will demonstrate the individual's competencies in the preparation and delivery of an assigned module. The instructors will evaluate these teach-backs and approve those who qualify as an AMPP C-3, C-5 and 8-Hour apprentice instructor. As the qualifying participant, you will then need to follow all rules and regulations of AMPP to continue to instruct these courses. You will need to instruct with an AMPP Lead instructor until such time you are approved to be a lead Instructor by AMPP.

FTI 2083-2608 ---Not yet Assigned---

Hour/s: XX

*FTI 2807C SSPC C-14 (MPCAC)
Marine Plural Component
Program (CERTIFICATION)
(sunset - code no longer used)*

Hour/s: 32

This course is designed to certify craft workers operating plural component spray equipment and those applying protective coatings on steel in immersion service by airless spray using plural component spray equipment (Certification Period: 48 months).

<http://www.sspc.org/Marine-Plural-Component-Program-MPCAC-C14>

FTI 2611-2806 ---Not yet Assigned---

Hour/s: XX

Drywall Finisher COURSE

DESCRIPTION

FTI 3000C AMES (CERTIFICATION)

Hour/s: 24

AMES Taping Tools Incorporated and TapeTech Tool Company have worked closely with the International Finishing Trades Institute for many years. This partnership has provided our union membership and training facilities with the latest drywall tool finishing technologies and techniques.

The FTI and AMES have partnered to offer our members a new certification in the AMES Automatic Taping and Finishing Tool program. The objective of this program is to provide a consistent, thorough, and sustainable certification training program to individuals who will transfer the knowledge of Automatic Taping and Finishing (ATF) tool skills to our local training facilities throughout the U.S. and Canada (Certification Period: 60 months).

FTI 3001C Trim-Tex (CERTIFICATION) (sunset - code no longer used)

Hour/s: 16

This program is a two-day training course designed to educate instructors on Trim-Tex products and the proper methods to install them. The 10,000-square foot facility, located in Lincolnwood, IL, showcases basic design techniques to advanced installation concepts. By the end of the program, the instructors should be able to:

- *Navigate the Trim-Tex website to utilize as a resource*
- *Identify common commercial Trim-Tex products and their application*
- *Understand and implement proper installation techniques for products covered*
- *Understand the resources available from Trim-Tex for product information and support. (Certification Period: Permanent).*

FTI 3002-3099 ---Not yet Assigned---



Floor Coverer

COURSE

DESCRIPTION

**FTI 4001C ARMSTRONG
Certified Installer Program
(ACIP) Train-the-Trainer
(sunset - code no longer used)**

Hour/s: 32

The Armstrong Certified Installer Program (ACIP) has been expanded and now provides the opportunity for installers to be certified in the following product categories: laminate, commercial sheet, linoleum, residential sheet, residential rotogravure, and hardwood. The program goal is to motivate installers to use the techniques and materials that will allow installation jobs to be done correctly, and, therefore, minimize end-user dissatisfaction and claims (Certification Period: Permanent).

Member Card Abbreviation: ARMSTRONG Certified Installer

**FTI 4002C FORBO Associate
Mechanic Train the Trainer
(CERTIFICATION) (sunset - code
no longer used)**

Hour/s: 40

The flooring industry is continually changing. In order to remain successful, those working in the industry must also change. Education is the key to this change. Through the Associate Mechanic program, FORBO is dedicated to offering resilient flooring installers the most comprehensive and professional installation course in the industry today (Certification Period: Permanent).

**FTI 4003 Johnsonite Specialty
Products Train-the-Trainer
(sunset - code no longer used)**

Hour/s: 32

This Johnsonite Specialty Products Train-the-Trainer Program is a 4 day (32 hour) series of workshops designed to provide participants with information and skills to properly select, use and install various specialty and rubber flooring products manufactured by Johnsonite. Technical instruction in the classroom will focus on the types of products offered and aspects of manufacturing Johnsonite's specialty products such as Linoleum, Homogeneous, Heterogeneous, Luxury Vinyl Tile (LVT) and adhesives as well as various rubber products, their use and integration with linoleum, vinyl and specialty flooring. The workshops will provide teaching techniques and presentation skills as well as hands-on opportunities for trainers to observe and/or perform skills using Johnsonite products including flash coving and pattern scribing, seam construction and treatments, and selecting and using the proper Johnsonite adhesives. Participants will also be introduced to Johnsonite's selection of rubber products with emphasis on the installation of rubber flooring, treads and risers with regard to ADA requirements; Millwork, Tightlock, RePlace and other wall base installations, as well as an in depth look at the problems, causes and cures of installing Transitions.

Johnsonite®

COURSE	DESCRIPTION
FTI 4004 Specialties of the Floorcovering Trade I	<p>Hour/s: 32</p> <p>This course is designed to provide an overview of state-of-the-art floorcovering tools and techniques used by some of the prominent manufacturers in the trade. A blend of classroom instruction and hands-on applications during this course will give the floorcovering journey worker an introduction to how these tools and techniques may improve the quality and efficiency of floorcovering work.</p>
FTI 4005C Tarkett Sheet Vinyl Train-the-Trainer (CERTIFICATION)	<p>Hour/s: 32</p> <p>This course is a three-step program to prepare IUPAT trainers to administrate the Tarkett Certifications. Course participants will receive Tarkett Select Level and Elite Level certifications. After that, IUPAT trainers receive training to deliver both Tarkett Certifications locally. The certification is a pass/fail test that includes a written and a practical examination (Certification Period: Permanent).</p>
FTI 4006-4102 ---Not yet Assigned---	
FTI 4103C Certified Flooring Installers (CFI) (CERTIFICATION)	<p>Hour/s: 20</p> <p>This is a 2 1/2 day hands-on skill test that will include a double stick carpet installation with a difficult pattern correction. There will be Stair tread installation and cove base installation (Certification Period: 36 months).</p>
FTI 4104-4205 ---Not yet Assigned---	
FTI 4106 CFI Hand Sewing and Pattern Correction	<p>Hour/s: 40</p> <p>CFI in collaboration with manufacturer technical reps present a one-week carpet training demonstrating updated installation techniques and procedures.</p> <p><i>Student Code: FLR 4106 CFI Hand Sewing and Pattern Correction</i></p>
FTI 4107 CFI Residential Stair and Carpet Restoration	<p>Hour/s: 32</p> <p>This two-day training focuses on advanced or custom installation methods for stairs. It provides installers with hands-on instruction on how to sew a round-capped step with a birdcage. Included are proven clear-cut practices for installing carpet in waterfall, together with skirt-and-cap methods.</p> <p><i>Student Code: FLR 4107 CFI Residential Stair and Carpet Restoration</i></p>
FTI 4108-4218 ---Not yet Assigned---	

COURSE**DESCRIPTION****FTI 4219 Jon Don Concrete Surface Preparation and Polishing**

Hour/s: 40

This is a surface preparation/demolition training. Topics include: CSP Surface Profiles, Removal Methods (VCT Tile, adhesive, ceramic, thin set, carpet, adhesives), Surface Preparation Equipment (angle grinders, edge and floor grinders, scrapers, shot blasters, demolition hammers, saws), Resinous Flooring Training, Surface Prep-Engineering Details and Profile, Flooring systems & Resin Technology, Installation of top 3 systems, Jobsite Controls, Daily Installation Checklist, Mix Station, Job Task sheets, Estimating and Labor Requirements, Advanced Concrete Surface Repairs, Joint Fill, Crack Repairs, Joint Re-Build, Slab stabilization, Surface Pitting and Repair Polished Concrete Training, Polishing Process Overview, Concrete Hardness & Diamond Tooling, Chemistry, Grouts, Hardeners, Dyes and Protection Hands-on, Processing of Concrete, Aggregate Exposure and Final Appearance, and Maintenance of Polished Concrete.

FTI 4220 ARDEX Flooring TTT

Hour/s: 20

Students who attend will be trained in moisture control, substrate preparation, patching and leveling, and adhesives. Lessons include priming, concrete and concrete surface conditions, joints and cracks in concrete, mechanical preparation of concrete, thick pour gypsum underlayments, adhesive residue, wood, metal, resilient and other non-porous substrates, self-leveling vs trowel grade materials, flat, smooth and level, and failures.

FTI 4221 ARDEX Specialties of Floor Covering

Hour/s: 24

Students who attend will be trained in moisture control, substrate preparation, patching and leveling, and adhesives. Lessons include priming, concrete and concrete surface conditions, joints and cracks in concrete, mechanical preparation of concrete, thick pour gypsum underlayments, adhesive residue, wood, metal, resilient and other non-porous substrates, self-leveling vs trowel grade materials, flat, smooth and level, and failures.

FTI 4222-4406 ---Not yet Assigned---

COURSE	DESCRIPTION
FTI 4407 Innovations4Flooring (I4F)	<p>Hour/s: 4</p> <p>Students will tour the I4F plant and see first hand how Solid Polymer Core (SPC) is made; from being extruded to being packaged. Students will discuss the differences in Common Compositions that will include laminate, Wood Plastic Composite (WPC), SPC and their different locking mechanisms between the different products. Hands-on training will consist of installation of both drop lock and angle products, subfloor prep, installation tips with layout and room balance. The proper tools to be used will also be reviewed.</p>
FTI 4408-4515 ---Not yet Assigned---	
FTI 4516 NWFA	<p>Hour/s: 40</p> <p>The goal is for the participants to pass the installation certification hands-on test and learn how to proctor these tests. The participants must complete the online university modules before the class in March-April.</p> <p><i>Student Version Course Code - FLR 4516 NWFA</i></p>
FTI 4517-4599 ---Not yet Assigned---	

Glazier COURSE

DESCRIPTION

**FTI 5000C AWS Certified
Welding Inspector Exam
Preparation Course
(CERTIFICATION) (sunset - code
no longer used)**

Hour/s: 48

During this forty-eight (48) hour course, participants will undergo a rigorous program of study to get them well versed with the codes/standards associated with the AWS Certified Welding Inspector Exam. Participants will learn the fundamentals of welding inspectors, oversee the welding of the test coupon, visually and destructively testing the welded test coupon, and demonstrate how to properly fill out the appropriate paper work. On the final day of the course, participants will take the AWS Certified Welding Inspector Exam. Successful exam candidates become AWS Certified Welding Inspectors (CWIs), joining an elite group, that, worldwide, share a defined level of proficiency. CWI's are then entered into the AWS national register of CWI's. The CWI will receive a wallet card, a certificate suitable for framing, and a unique personalized stamp for identification (Certification Period: 36 months)

Member Card Abbreviation: Aws Cert Welding Insp Exm Prep

**FTI 5001C AWS Certified Welder
Train the Trainer
(CERTIFICATION) (sunset - code
no longer used)**

Hour/s: 40

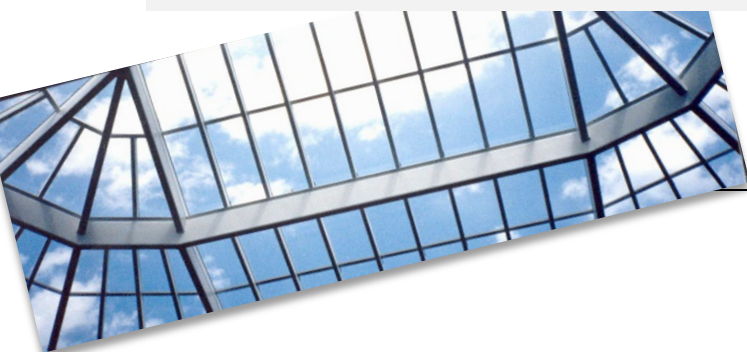
Students who complete this course will have the skills necessary to provide students the local level with the theoretical and the practical skills necessary to become a welder. Students will examine the fundamentals of the Shielded Metal Arc Welding (SMAW) process including safety considerations and precautions and terminology. This course also provides students with hands-on experience in SMAW in flat, horizontal, vertical, and overhead positions. Instruction in oxygen fuel cutting is also highlighted (Certification Period: Permanent).

Member Card Abbreviation: AWS Certified Welder TTT

**FTI 5002 Skylighting Systems
Installation Train the Trainer:
Super Sky (sunset - code no
longer used)**

Hour/s: 32

This course will provide participants with the knowledge and skills necessary to properly install two distinct skylighting systems manufactured by Super Sky. Super Sky, a worldwide leader in the skylight industry, designs, manufactures and installs high quality skylighting systems. At the conclusion of this course, participants will be prepared to provide students at the local level with the theoretical and the practical skills necessary to properly install two skylighting systems manufactured by Super Sky.



COURSE

DESCRIPTION

FTI 5003 Total Stations (sunset - code no longer used)

Hour/s: 32

The Glazing trade has evolved over the years and Glaziers continue to fabricate, repair, install and service many types of commercial and residential glazing systems. What has changed over the years is a large part of the trade now involves the building envelope. Glaziers must continue to read and interpret prints, shop drawings, window and door schedules and various specifications. Glaziers must also be able to take this information and transfer it to the lay out of the work to be installed. Total Stations is an evolving layout technology that can be used by IUPAT Glaziers, as well as other crafts in the finishing trades. If trained properly, this technical layout should provide additional work opportunities for IUPAT members as workers and lead foreman.

FTI 5004 Total Stations II (sunset - code no longer used)

Hour/s: 40

The Glazing trade has evolved over the years and Glaziers continue to fabricate, repair, install and service many types of commercial and residential glazing systems. What has changed over the years is a large part of the trade now involves the building envelope. Glaziers must continue to read and interpret prints, shop drawings, window and door schedules and various specifications. Glaziers must also be able to take this information and transfer it to the lay out of the work to be installed. Total Stations is an evolving layout technology that can be used by IUPAT Glaziers, as well as other crafts in the finishing trades. If trained properly, this technical layout should provide additional work opportunities for IUPAT members as workers and lead foreman.

FTI 5005C Green Advantage TTT (CERTIFICATION) (sunset - code no longer used)

Hour/s: 24

The Green Advantage Certified Curtain Wall Installer (GAC/CI), is a two-part specialty trade certification that includes the Green Advantage Certified Associate (GACA) and the Green Advantage Certified Practitioner (GACP) certification. Part I is a written exam, designed to test the candidate's knowledge, skills & abilities related to green building. Part II tests the candidate's knowledge, skills & abilities related to curtain wall installation (Certification Period: 60 months).



COURSE**DESCRIPTION****FTI 5006 School Guard Training
(sunset - code no longer used)***Hour/s: 16*

School Guard Glass™ (SGG) has developed a glass product that is designed to protect building occupants by stopping a would-be violent intruder from penetrating door and framing systems for 6 minutes or more, providing valuable time for the call for and arrival of help. Education, government and private facilities are turning to School Guard Glass for interior and exterior doors and windows of a building because SGG's SG4™ and SG5™ glass products can be made to fit any required thickness of doors that are built to receive ¼" glass up to 1-1/4" glass for the longest protection and at a cost savings.

**FTI 5007 Schuco - FW60+
Captured and Structurally
Glazed Systems (sunset - code
no longer used)***Hour/s: 24*

The Schuco FW60+ is a 60mm wide stick curtain wall system using vertical mullion profiles and overlapping horizontal transom profiles with an overall drainage concept. The system requires the knowledge of some unique tools as well as specialized hands-on training with some standard items for installation and assembly.

**FTI 5008C Graco Spray
Equipment (CERTIFICATION)
(sunset - code no longer used)***Hour/s: 28*

The Graco training will enhance the knowledge of trainers to train IUPAT members how to properly use the Spray paint equipment. Topics and activities covered include safety of working with and around Paint sprayers, pump fluid sections troubleshooting, pump rebuilds, airless guns how they work and issues that could arise, pump and airless gun rebuild review, prime valves and change outs, new product intro and demos, small Electric models (Ultra II 490, Ultra 395, Model 390 and 395 Fine Finish, pump and gun rebuilds, noon Large electric models, new product demo, GMax and gas models, gas Hydraulic and Texture, and plant tour (Certification Period: Permanent).

**FTI 5009C AGMT
(CERTIFICATION)****Hour/s: 16**

The AGMT (Architectural Glass and Metal Technician) certification will be a full day written exam and a day hands-on. Prerequisites include documented 7500 Glazing work hours, at least OSHA 10 certification, and an ATR recommendation. At the end of training, instructors will be able to train and explain the Glazing Certification for local craftworkers to take and be certified at a qualified center, and assist in local recruitment of applicants (Certification Period: 48 months).

All registrants will receive a study guide in advance.

A written and physical assessment of the fundamental knowledge and skills required to proficiently perform foundational or basic glazing tasks.

The emphasis of which will be on factors and elements that tend to minimize glazing related defects and failures, and conform to customer requirements.

COURSE	DESCRIPTION
FTI 5010 AGMT Prep	<p>Hour/s: 16</p> <p>This course will give instruction on how to create a prep course and execute it for members who are going to take the certification test.</p>
FTI 5011---Not yet Assigned---	
FTI 5012 AGMT Proctor TTT	<p>Hour/s: 16</p> <p>This is a 2-day training course and is open for members who hold a valid AGMT Certification. Please register your members who would be willing to become an AGMT proctor to certify our membership.</p>
FTI 5013-5113 ---Not yet Assigned---	
FTI 5114 Woods Powr-Grip	<p>Hour/s: 16</p> <p>In this course members will learn production knowledge, proper use and general maintenance of Woods Powr-Grip equipment. Members will tour the WPG Plant, get introduced to the products, learn Hand Cup and Lifter Repair. For the student course version, please refer to GLZ 5114 Woods Powr-Grip.</p> <p><i>Student Version Course Code - GLZ 5114 Woods Powr-Grip</i></p>
FTI 5115-5122 ---Not yet Assigned---	
FTI 5123 Trimble Robotic Total Stations	<p>Hour/s: 24</p> <p>This class will teach you how to utilize Trimble Robotic Total Stations for construction layout with Trimble FieldLink. We will go over the fundamentals of care, setting up, and successfully surveying in the construction world. Utilizing 2D and 3D drawings, we will connect the digital and physical worlds to lay out construction points as perfectly as possible, ensuring projects are built to spec, correctly, accurately, and efficiently using industry-leading layout technology.</p> <p><i>Student Version Course Code – GLZ 5123 Trimble Robotic Total Stations</i></p>

COURSE	DESCRIPTION
FTI 5124 Raise Robotics System for Layout Marking TTT	<p>Hour/s: 24</p> <p>This Train the Trainer course equips IUPAT instructors and contractor leaders with the skills needed to operate the Raise Robotic System for Layout Marking. Participants will learn how to use Trimble RTS with Raise's robotic platform to automate layout workflows on commercial construction projects. Participants will leave certified to operate the Raise Robot platform for safe, accurate, and productive robotic layout practices.</p>
FTI 5125-5304 ---Not yet Assigned---	
FTI 5305 Procore Construction Project Management Tools	<p>Hour/s: 16</p> <p>This Procore training is designed to assist those who are interested in teaching aspects of Procore in their training classes to apprentices and journeymen. This course covers our Project Management tools including drawings, specs, RFI, and our safety tools that may be required by a tradesperson using Procore. This training will cover classroom resources we've built for instructors, and includes questions and answer time that will allow for attendee specific questions as needed.</p> <p><i>Student Version Course Code - GLZ 5305 Blueprint Reading: Architectural</i></p>
FTI 5123 Trimble Robotic Total Stations	<p>Hour/s: 24</p> <p>This class will teach you how to utilize Trimble Robotic Total Stations for construction layout with Trimble FieldLink. We will go over the fundamentals of care, setting up, and successfully surveying in the construction world. Utilizing 2D and 3D drawings, we will connect the digital and physical worlds to lay out construction points as perfectly as possible, ensuring projects are built to spec, correctly, accurately, and efficiently using industry-leading layout technology.</p> <p><i>Student Version Course Code – GLZ 9 Trimble Robotic Total Stations</i></p>
FTI 5306-5999 ---Not yet Assigned---	

Hydro Blaster/Vacuum Technician

COURSE

DESCRIPTION

FTI 6000 Hydroblaster/Vacuum Technician (sunset - code no longer used)

Hour/s: 40

This course is a new offering co-sponsored by the IUPAT and FTI to meet the ever-changing needs of the industry and the affiliates it serves. The new course ensures that instructors will learn the theoretical knowledge and the practical skills necessary to teach apprentices to be a successful Hydro Blaster / Vacuum Technician. During this 40-hour course, instructors will be exposed to labor union history with special emphasis on the IUPAT, health and safety issues, and proper operating procedures and equipment maintenance related to the Hydro Blasting and Vacuum Technician trade.



Painter

COURSE

DESCRIPTION

FTI 7000 Specialties of the Drywall Trade I

Hour/s: 32

This course is designed to give an overview of state-of-the-art taping and finishing tools and techniques used by three different drywall tool companies. Students will learn the assembly, use, and clean-up required for the tape application and finishing systems presented by Ames Tools Inc., Apla-Tech, Inc. and Better-than-Ever Tools. Hands-on applications during this course will give the drywall journey worker an introduction to the use of the tools. Students will experience not only how these tools may improve the quality and efficiency of taping and finishing work, but also how each system's tools and techniques may increase productivity and income while feeling the physical benefits of using these ergonomically designed tools.

FTI 7001C Specialties of Concrete Toppings and Coatings: ARDEX (CERTIFICATION)

Hour/s: 32

This course is designed to provide participants an overview of state-of-the-art protective and decorative coating products, tools, and application techniques offered by ARDEX Engineered Cements. This course is targeted toward coating applicators that prepare the surface and apply coatings such as acrylic, epoxy, or urethane. A blend of classroom instruction and hands-on applications during this course will give participants an in-depth perspective into how these products, tools and application techniques may improve the quality and efficiency of floor coating work processes (Certification Period: Permanent).

Member Card Abbreviation: ARDEX Specialties Tops&Coats

FTI 7002---Not yet Assigned---

Hour/s: X

COURSE**DESCRIPTION**

*FTI 7003 Faux Effect -
Decorative Finishes I (sunset -
code no longer used)*

Hour/s: 40

This course allows novices or seasoned professionals to learn about the products and application techniques developed for the professional faux finisher. This intense class will cover everything needed to bring IUPAT painting and decorating tradesperson skills to a higher level. Starting with the basics, and progressing through the full range of Faux Effects products the course participant will complete over thirty samples, integrating the remarkable characteristics the product line has to offer, while being amazed at the easy application process.

*FTI 7004 Faux Effect -
Decorative Finishes II (sunset -
code no longer used)*

Hour/s: 40

This course provides experienced painting professionals the opportunity to use the knowledge and skills taught in Decorative Finishes I to build upon products and advanced application techniques for the faux finisher. In this hands-on course, exciting new materials will be introduced using a variety of innovative methods. Familiar products combined with new techniques will allow students to increase their proficiency with these products and create 20 spectacular showcase finishes. Additionally, participants will demonstrate these new skills to accurately complete a decorative finish job from start to finish, including: Bid Specifications; Estimation of Time, Materials, and Products; Job-site Preparation; Customer Service; and Marketing Methods.

**FTI 7005 Wallcovering Beginner
Train The Trainer**

Hour/s: 4

This course provides wall covering instructors with the knowledge, skills, and abilities to teach basic to advanced wall covering techniques to apprentices. The course was developed in partnership with the FTI, FTI Local Area Training Funds and Manufacturers from the wall covering industry.

*FTI 7006C SSPC Train the
Painter TTT (CERTICATION)
(sunset - code no longer used)*

Hour/s: 16

The program covers topics in the areas of surface preparation and coating application for Levels I and II. Level I training is especially designed for entry-level employees new to the coatings industry while Level II meets the training needs of more seasoned craft workers (Certification Period: 60 months).

**FTI 7007-7106 ---Not yet
Assigned---**

COURSE**DESCRIPTION**

FTI 7107 Benjamin Moore Train the Trainer Seminar (sunset - code no longer used)



Hour/s: 32

Basic and specialty presentations and training from Benjamin Moore & Co. and various painting vendors such as Wooster Brush, Dumond Chemical, Festool, and Graco. Topics include: Benjamin Moore: Paint 101, Paint Technology, Benjamin Moore Advantage

Identifying causes and solutions to common paint problems Specialty Coatings (Pools, Tennis Courts, Fire Retardant, etc.) High Performance Floor Systems Hands on, Start to finish, Onfloor Prep Equipment

FTI 7108 Benjamin Moore - Site Visit/Training (sunset - code no longer used)

Hour/s: 32

Specialty training and site tour at Benjamin Moore's R&D Facility in Flanders, NJ. Agenda includes: Benjamin Moore Basics, Test Farm, Product Evaluation Lab, Facility Tour/Application, Plant Tour

FTI 7109-7809 ---Not yet Assigned---

FTI 7900 Fundamentals of Decorative Finishing Part 1

Hour/s: 40

The 40-hour course will provide our affiliated instructors a foundation of skills and a general overview in the techniques of decorative painting through advanced trade-experienced instruction. This course will focus on technology and an introduction to materials, as well as practical hands-on use in colors, glazes, marbleizing and wood graining.

FTI 7901 Decorative Painting (sunset - code no longer used)

Hour/s: 40

The course is a beginner's decorative class for instructors. The class is designed to teach new instructors how to effectively teach their students the basics of decorative painting, including glazing, graining, marbling, and decorative plasters. This class will cover the proper use of different mediums, tools, and techniques used for classroom training and practical application. Future Instructors will leave with a confidence in their ability to teach others these basics.

FTI 7902 Fundamentals of Decorative Finishing Part 2

Hour/s: 40

TBD

FTI 7903-7999---Not yet Assigned---

COURSE	DESCRIPTION
FTI 9997 FTI Associate Instructor Enrollment	<p>Hour/s: N/A</p> <p>Enrollment for FTI Associate Instructor program.</p>
FTI 9998C FTI Associate Instructor Graduation	<p>Hour/s: N/A</p> <p>The Instructor Training Program is a course of study designed solely for individuals employed to train IUPAT members by affiliated local unions and apprenticeship programs. The Instructor Training Program is delivered in traditional classroom settings with a mixture of lecture and lab-type assignments. The courses for the Instructor Training Program are offered several times each year on the iFTI main campus located in Hanover, Maryland. If you are eligible, your transcript will be assigned an FTI 9997 FTI Associate Instructor Enrollment course. The program offers a certificate upon successful completion (FTI 9998C FTI Associate Instructor Graduation). The iFTI does not award degrees (Certification Period: Permanent).</p> <p>Member Card Abbreviation: FTI Associate Instructor</p>
FTI 9999C FTI Master Instructor Capstone Project (CERTIFICATION)	<p>Hour/s: 24</p> <p>The iFTI Master Instructor Capstone Project is the final course an instructor will take prior to being awarded an iFTI Master Instructor Certificate of Completion. The capstone process is the culmination of all of the courses an instructor has taken at the FTI, along with any teachings the instructor has completed at the local area training fund, the iFTI, or for a third-party entity (such as AMPP, SSPC and Green Advantage). The key components of the capstone project include, presentation/final paper, favorable evaluations from students and peers, including, but not limited to Apprenticeship Training Representatives (ATRs) and the Director of Curriculum and Instruction and the successful development and delivery of a lesson on a pre-approved, craft-specific topic (Certification Period: 48 months).</p> <p>Member Card Abbreviation: FTI Master Instructor Capstone</p>

French Courses



Overview

The International Finishing Trades Institute (iFTI) LMS offers online classes translated in French.

Course List

The IUPAT/iFTI Program of Study for French courses is outlined below.

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
FRE	1000-1099	Introduction to the Union and Finishing Trades		
		Course Code and Course Name	Hours	Months Valid
		FRE 1000 Introduction Aux Techniques D'enseignement Pour Adultes*	1.5	N/A
		FRE 1001 Le Harcelement la Discrimination et la Violence au Travail*	.5	N/A
		FRE 1002-1008 Not Yet Assigned	N/A	N/A
		FRE 1009 Elements fondamentaux de la finance des Affaires*	1	N/A
		FRE 1010-1011 Not Yet Assigned	N/A	N/A
		FRE 1012 Initiation a la securite a l'intention des jeunes travailleurs*	1	N/A
		FRE 1013-1037 Not Yet Assigned	N/A	N/A
		FRE 1038 Normes d'Accessibilite*	.5	N/A
		FRE 1039-1099 Not Yet Assigned	N/A	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
FRE	1100-1199	Health and Safety		
		Course Code and Course Name	Hours	Months Valid
		FRE 100-168 Not Yet Assigned	N/A	N/A
		FRE 169 Sensibilisation aux moisissures*	0.5	N/A
		FRE 170-178 Not Yet Assigned	N/A	N/A
		FRE 179 Pratiques Securitaires Pour le Travail a Chaud*	0.5	N/A
		FRE 180-197 Not Yet Assigned	N/A	N/A
		FRE 198 Resilience a la Pandemie	16	N/A
		FRE 199 Not Yet Assigned	N/A	N/A
		FRE 1100C SIMDUT 2015* (WHMIS French)	0.5	12
		FRE 1101 La sensibilisation e la sante et la securite*	0.83	N/A
		FRE 1102 Not Yet Assigned	N/A	N/A
		FRE 1103 Ergonomie au quotidien*	.75	N/A
		FRE 1104-1107 Not Yet Assigned	N/A	N/A
		FRE 1108 Les Echelles en Toute Securite*	.25	N/A
		FRE 1109 Not Yet Assigned	N/A	N/A
		FRE 1110 Diligence raisonnable*	.83	N/A
		FRE 1111 Not Yet Assigned	N/A	N/A
		FRE 1112 Les risques electriques*	.5	N/A
		FRE 1113-1117 Not Yet Assigned	N/A	N/A
		FRE 1118 Le verrouillage et l etiquetage*	.5	N/A
		FRE 1119-1144 Not Yet Assigned	N/A	N/A
		FRE 1145 Sensibilisation a Lamiante*	0.5	N/A
		FRE 1146-1157 Not Yet Assigned	N/A	N/A
		FRE 1158 L Equipement de Protection Individuelle (EPI) - Generique*	1	N/A
		FRE 1159 Manutention manuelle des materiaux et prevention des blessures au dos*	.5	N/A
		FRE 1160-1163 Not Yet Assigned	N/A	N/A
		FRE 1164 Securite en matiere d agents pathogenes transmissibles par le sang a l intention des employes canadiens*	1	N/A
		FRE 1165-1196 Not Yet Assigned	N/A	N/A
		FRE 1197 Glisser trebucher et chuter*	.25	N/A
		FRE 1198-1199 Not Yet Assigned	N/A	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
FRE	1200-1299	Leadership		
		Course Code and Course Name	Hours	Months Valid
		FRE 1200 Rudiments de la communication*	4	N/A
		FRE 1201-1214 Not Yet Assigned	N/A	N/A
		FRE 1215 La Protection des Renseignements Personnels*	.5	N/A
		FRE 1216 La gestion du temps*	.75	N/A
		FRE 1217 Communications Commerciales*	5	N/A
		FRE 1218-1220 Not Yet Assigned	N/A	N/A
		FRE 1221 La delegation*	2	N/A
		FRE 1222-1224 Not Yet Assigned	N/A	N/A
		FRE 1225 Communication et Leadership*	4	N/A
		FRE 1226-1232 Not Yet Assigned	N/A	N/A
		FRE 1233 Gestion de Projet*	4	N/A
		FRE 1234-1235 Not Yet Assigned	N/A	N/A
		FRE 1236 La Gestion de Conflit	1.5	N/A
		FRE 1226-1239 Not Yet Assigned	N/A	N/A
		FRE 1240 Motivation des Employes*	1	N/A
		FRE 1241 La Gestion de Votre Cheminement de Carriere*	1	N/A
		FRE 1242-1243 Not Yet Assigned	N/A	N/A
		FRE 1244 Etre un Brillant Superviseur*	1	N/A
		FRE 1245 Service a la Clientele*	3.5	N/A
		FRE 1246-1247 Not Yet Assigned	N/A	N/A
		FRE 1248 Resolution de Probleme*	1	N/A
		FRE 1249 Une Culture d Entreprise Saine*	1.5	N/A
		FRE 1250-1251 Not Yet Assigned	N/A	N/A
		FRE 1252 Conduite securitaire*	2.25	N/A
		FRE 1253 Loi sur la Corruption d Agents Publics Etrangers*	1	N/A
		FRE 1254 La Loi Antipourriel*	.5	N/A
		FRE 1255-1256 Not Yet Assigned	N/A	N/A
		FRE 1257 La securite au bureau*	.8	N/A
		FRE 1258 Not Yet Assigned	N/A	N/A
		FRE 1259 Vivre les Changements en Milieu de Travail*	.5	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
FRE	1200- 1299	Leadership		
		Course Code and Course Name	Hours	Months Valid
		FRE 1260 Not Yet Assigned	N/A	N/A
		FRE 1261 Un Leadership Efficace*	4	N/A
		FRE 1262 Not Yet Assigned	N/A	N/A
		FRE 1263 Amelioration de la Productivite Individuelle*	1.25	N/A
		FRE 1264 Not Yet Assigned	N/A	N/A
		FRE 1265 La Gestion du Changement*	1	N/A
		FRE 1266 Sensibilisation a la Sante Mentale*	.5	N/A
		FRE 1267 Creativite et innovation en milieu de travail	1.5	N/A
		FRE 1268 Lestime de Soi*	.5	N/A
		FRE 1269-1299 Not Yet Assigned	N/A	N/A



French Course **Description**

Introduction to the Union and Finishing Trades

COURSE	DESCRIPTION
FRE 1000 Introduction Aux Techniques D'enseignement Pour Adultes*	<p>Hour/s: 1.5</p> <p>The course has three online courses. Comment Apprennent les Adultes? (How do adults learn?), Conseils et Techniques Pour Reussir Une Formation (Tips and Techniques For Successful Training), and Introduction au concept de la formation* (Introduction to Training).</p>
FRE 1001 Le Harcelement la Discrimination et la Violence au Travail*	<p>Hour/s: 0.5</p> <p>English Translation: Harassment, Discrimination and Violence at Work * (Canada)</p> <p>Chaque employé a droit à un lieu de travail respectueux exempt de harcèlement, de discrimination illégale, de violence et de représailles. Ce cours est conçu pour informer les employés de leurs obligations légales et des mesures de prévention à prendre.</p>
FRE 1002-1008 Not Yet Assigned	<p>Hour/s: X</p>
FRE 1009 Elements fondamentaux de la finance des Affaires*	<p>Hour/s: 1</p> <p>English Translation: Fundamentals of Business Finance</p> <p>Des états financiers fournissent de l'information valable pour guider la prise de décisions dans le monde des affaires. Il est donc essentiel que ceux qui prennent les décisions aient une bonne compréhension des états financiers et de leurs rôles dans la prise de décisions. Ce module présente les éléments fondamentaux concernant la lecture et la compréhension des états financiers. Il démontre comment certaines activités peuvent avoir et ont un effet sur la santé financière de l'organisation, introduit des concepts, des exemples et connaissances qui sont utilisés pour ceux qui prennent des décisions et ne sont pas orientés vers les finances.</p>
FRE 1010-1011 Not Yet Assigned	<p>Hour/s: X</p>

COURSE

DESCRIPTION

**FRE 1012 Initiation a la securite
a l'intention des jeunes
travailleurs***

Hour/s: 1

English Translation: Safety training for young workers

Les blessures subies au travail risquent d'avoir des répercussions qui durent toute une vie. Chaque semaine, cinq jeunes travailleurs deviennent handicapés de façon permanente en raison d'un accident de travail. La plupart du temps, les jeunes travailleurs subissent ces blessures dans les six premiers mois de leur nouvel emploi. Ce module d'apprentissage en ligne fournit à tous les jeunes travailleurs des directives essentielles en matière de sécurité. Il explique également au personnel de supervision quelles sont leurs responsabilités. Il est primordial que chaque jeune travailleur âgé de moins de 24 ans étudie ce module avant de commencer son nouvel emploi.

**FRE 1038 Normes d
Accessibilite***

Hour/s: .5

English Translation: Accessibility Standards

La formation donne un aperçu des exigences générales relatives au service à la clientèle, l'information et les communications, l'emploi, le transport et la conception des espaces publics.

**FRE 1013-1099 Not Yet
Assigned**

Health and Safety

COURSE

DESCRIPTION

FRE 100-168 Not Yet Assigned

Hour/s: X

FRE 169 Sensibilisation aux moisissures*

Hour/s: 0.5

English Translation: Awareness of molds

Les moisissures peuvent poser un sérieux problème en milieu de travail et sur la santé. Le présent cours fournit une définition de ce que sont les moisissures; il décrit leurs effets sur la santé, passe en revue les responsabilités des employeurs en vertu de la loi et donne un aperçu des stratégies de prévention et de contrôle des moisissures.

FRE 170-199 Not Yet Assigned

Hour/s: X

FRE 179 Pratiques Sécuritaires Pour le Travail a Chaud*

Hour/s: 0.5

English Translation: Hot Work Safe Practices

Ce cours de formation en ligne Pratiques sécuritaires pour le travail à chaud est conçu pour les employés participant à des travaux à chaud, c'est-à-dire tout travail utilisant des flammes nues ou des sources de chaleur susceptibles d'enflammer des matériaux dans la zone de travail. Les apprenants découvriront le triangle du feu et d'autres caractéristiques du feu, les pratiques de travail sûres pour le travail à chaud, les rôles et responsabilités des personnes impliquées dans le travail à chaud et les permis de travail à chaud.

FRE 180-197 Not Yet Assigned

Hour/s: X

COURSE

DESCRIPTION

FRE 198 Resilience a la Pandemie

Hour/s: 16

English Translation: Pandemic Resiliency

Le cours favorise la résilience des établissements d'enseignement lors de pandémies de maladies infectieuses (en mettant l'accent sur le COVID-19) ou d'épidémies. Le programme mettra l'accent sur les études de cas et les recherches actuelles affectant les populations cibles de formation et les types d'installations, la sensibilisation aux maladies infectieuses (en mettant l'accent sur COVID-19), l'élaboration d'un plan de pandémie (avec un exemple de plan COVID-19), la sélection et la mise en œuvre de la santé et la sécurité contrôles, et trouver et utiliser des sources d'information fiables.

FRE 199 Not Yet Assigned

Hour/s: X

FRE 1100C SIMDUT 2015* (WHMIS French)

Hour/s: .5

Dans ce cours, nous allons décrire le Système d'information sur les matières dangereuses en milieu de travail – SIMDUT – ainsi que la façon de le mettre efficacement en pratique à votre travail. Le SIMDUT est aligné avec la nouvelle norme mondiale, le Système général harmonisé de classification et d'étiquetage des produits chimiques (ou SGH), donc nous allons également décrire les règles et formats de ce système pour la gestion des produits dangereux. Les systèmes décrits dans ce module sont rendus obligatoires par le gouvernement fédéral et mis en application dans chaque province ou territoire par les différents ministères du travail.

FRE 1101 La sensibilisation e la sante et la securite*

Hour/s: .83

English Translation: Health and safety awareness

Tout le monde dans le lieu de travail a la responsabilité de maintenir et d'assurer la sécurité. Ce cours expliquera les droits et responsabilités au travail et les exigences des lois sur la santé et la sécurité pour l'employeur, le superviseur et les travailleurs.

FRE 1102 Not Yet Assigned

Hour/s: X

XXX

COURSE**DESCRIPTION****FRE 1103 Ergonomie au quotidien***

Hour/s: .75

English Translation: Everyday ergonomics

Les tâches de bureau sont très variées. Leur exécution exige l'utilisation de divers équipements et outils. Par conséquent, chaque tâche de bureau demande un effort distinct de la part des différentes parties du corps humain. L'ergonomie est l'étude qui se penche sur ces efforts du corps humain et qui examine le travail à exécuter ainsi que l'équipement et les outils à utiliser, tout en veillant à ce que chaque employé exécute son travail de la façon la plus efficace et la plus sécuritaire possible.

FRE 1104-1107 Not Yet Assigned

Hour/s: X

XXX

FRE 1108 Les Echelles en Toute Sécurité*

Hour/s: .25

English Translation: Ladders in complete safety.

Chaque année, un grand nombre de personnes subissent des blessures en utilisant des échelles de façon inappropriée, au travail et à la maison. Ce cours est basé sur les règlements du Canada atlantique.

FRE 1109 Not Yet Assigned

Hour/s: X

XXX

FRE 1110 Diligence raisonnable*

Hour/s: 0.83

English Translation: Due diligence

La diligence raisonnable est mieux connue sous le nom de « clause d'obligation générale » dans l'ensemble des lois provinciales en matière de santé et de sécurité. La diligence raisonnable signifie que les employeurs doivent prendre toutes les précautions raisonnables dans les circonstances pour protéger les travailleurs ainsi que pour prévenir les blessures et les accidents au travail. Ce module donne une idée précise des exigences légales auxquelles les employeurs doivent se conformer ainsi que des répercussions pouvant découler de l'inobservation.

COURSE**DESCRIPTION****FRE 1111 Not Yet Assigned**

Hour/s: X

FRE 1112 Les risques électriques*

Hour/s: 0.5

English Translation: Electrical risks

Les risques électriques comprennent toutes les possibilités importantes de blessures au contact d'une source d'électricité. Certains risques, comme les échafaudages instables et les ouvertures dans le plancher, sont faciles à identifier. Toutefois, la plupart des gens ne sont pas conscients des risques électriques et des dangers qu'ils représentent.

FRE 1113-1117 Not Yet Assigned

Hour/s: X

FRE 1118 Le verrouillage et l'étiquetage*

Hour/s: 0.5

English Translation: Locking and tagging

We know that accidents involving contact with energized equipment represent the most serious accidents in the workplace. We also know that using lockout/tagout procedures is the most effective, systematic way to prevent these injuries. Lockout/tagout can involve various types of energy sources. Lockout/Tagout, module 1 looked at how to tagout equipment fed by electrical sources. This module will discuss the various other sources of energy which may be found in the workplace such as Hydraulic, Pneumatic (air), Kinetic, Potential, Thermal, Chemical, Mechanical and Radiation. The purpose of this module is to give you an understanding of the above mentioned energy sources and to help you to further understand the importance of locking out and tagging out equipment to prevent injuries in the workplace.

FRE 1119-1144 Not Yet Assigned

Hour/s: X

COURSE

DESCRIPTION

FRE 1145 Sensibilisation a Lamiente*

Hour/s: 0.5

English Translation: Asbestos Awareness

L'amiante peut poser un sérieux problème en milieu de travail. Le présent module fournit une définition de ce qu'est l'amiante et décrit les endroits où nous le retrouvons. Il décrit aussi son effet sur la santé et la méthode d'évaluation de l'exposition à l'amiante. Finalement, il passe en revue les différentes lois qui portent sur l'amiante et fournit un aperçu de l'encapsulation de l'amiante.

FRE 1146-1157 Not Yet Assigned

Hour/s: X

FRE 1158 L Equipement de Protection Individuelle (EPI) - Generique*

Hour/s: 1

English Translation: Personal protective equipment (PPE) - Generic

Plus d'un quart des blessures causant des invalidités surviennent à la tête, aux yeux, aux mains ou aux pieds. L'équipement de protection individuelle ou ÉPI, vous protège de nombreuses sources de danger qui ne peuvent être éliminés de votre milieu de travail. Dans ce cours, nous examinerons les types d'équipement de protection individuelle (ÉPI) les plus couramment utilisés. Nous examinerons aussi quand et où vous en aurez besoin et comment choisir l'équipement approprié à votre environnement de travail.

FRE 1159 Manutention manuelle des matériaux et prevention des blessures au dos*

Hour/s: 0.5

English Translation: Manual handling of materials and prevention of back injuries

Les blessures au dos sont certes agaçantes à court terme, mais elles peuvent également avoir de graves conséquences à long terme sur la qualité de vie d'un travailleur. Le présent module examine le dos et son fonctionnement et décrit quelque blessures du dos et leurs préventions.

FRE 1160-1163 Not Yet Assigned

Hour/s: X

COURSE

DESCRIPTION

FRE 1164 Sécurité en matière d'agents pathogènes transmissibles par le sang à l'intention des employés canadiens*

Hour/s: 1

English Translation: Safety of blood-borne pathogens for Canadian employees

L'exposition aux maladies transmissibles par le sang est une grave préoccupation dans de nombreux secteurs de la population active. Les agents pathogènes transmissibles par le sang sont les microorganismes pathogènes présents dans le sang et ses composants, et dans les produits d'origine humaine. Dans ce cours, vous verrez comment se produit l'exposition aux agents pathogènes transmissibles par le sang et comment vous protéger et protéger les autres.

FRE 1165-1196 Not Yet Assigned

Hour/s: X

FRE 1197 Glisser, trébucher et chuter*

Hour/s: .25

English Translation: Slip, trip and fall

Les glissades et les chutes sont deux des plus importantes causes de blessures en milieu de travail. Elles représentent une blessure sur cinq entraînant une perte de temps au travail. Les individus qui travaillent sur des échelles sont sans doute bien au fait des risques qu'ils encourent. Mais ceux et celles qui restent les deux pieds sur terre sont souvent moins conscients des risques. Ce cours vous indiquera certaines lignes directrices pour éviter les accidents reliés aux travailleurs qui trébuchent, glissent ou chutent. Nous ferons un survol des méthodes permettant aux employeurs et aux employés de réduire les risques d'accidents. Nous verrons aussi à quel point un milieu de travail propre et ordonné peut éviter bien des blessures.

FRE 1198-1199 Not Yet Assigned

Hour/s: X

Leadership

COURSE

DESCRIPTION

FRE 1200 Rudiments de la Communication*

Hour/s: 4

English Translation: Basic Communication

Modules include La communication non verbale, Rudiments de la communication, Pratiquer l'écoute Active3. Pratiquer l'écoute Active, and Aptitudes à l'écoute Personnelles.

Ce cours offre une introduction à la signification des signaux projetés par le langage corporel. Vous apprendrez comment ces signaux donnent des indices aux attitudes et sentiments qu'on peut étudier et vérifier avec une communication orale efficace. En assimilant et mettant en pratique les techniques présentées dans ce cours, vous pouvez devenir un communicateur efficace.

Vous êtes convaincu que vous vous êtes exprimé clairement, mais l'interlocuteur ne semble pas comprendre. C'est comme si vous parliez une autre langue. Apprenez les bases d'une communication efficace et soyez plus confiant dans vos habiletés en vous assurant que vos messages sont bien compris.

FRE 1201-1207 Not Yet Assigned

Hour/s: X

FRE 1208 Le Manager Effectif*

Hour/s: 1

English Translation: Effective discipline in the workplace - C'est souvent difficile pour les gérants et superviseurs de discipliner les employés efficacement. Le meilleur outil pour le faire est une politique efficace de discipline en milieu de travail qui est appliquée équitablement et systématiquement. Une politique de discipline communique aux employés ce qu'on attend d'eux et quelles sanctions seront imposées pour certaines infractions. En élaborant une politique et en documentant tous les incidents, vous pourrez réduire le mécontentement au travail à son minimum, augmenter la productivité et remonter le moral. Ce cours offre des conseils pratiques pour mettre en place ou améliorer votre politique de discipline.

FRE 1209-1210 Not Yet Assigned

Hour/s: X

COURSE

DESCRIPTION

FRE 1211 Sante et Securite pour les Gestionnaires et les Superviseurs*

Hour/s: 9

English Translation: Health and Safety for Managers and Supervisors

Ce cours de formation en ligne sur la santé et la sécurité pour les gestionnaires et superviseurs au Canada explore la protection de la santé et de la sécurité des employés sur le lieu de travail. Grâce à ce cours de 15 modules, les superviseurs et les gestionnaires découvriront les exigences en matière de santé et de sécurité de leur lieu de travail et comment développer un programme autour de celles-ci. Ils en apprendront également davantage sur les dangers et les blessures courants qui touchent de nombreux lieux de travail et travailleurs, ainsi que sur certains risques spécialisés, tels que les dangers liés au travail avec des produits chimiques.

FRE 1212-1214 Not Yet Assigned

Hour/s: X

FRE 1215 La Protection des Renseignements Personnels*

Hour/s: .5

English Translation: Protection of Personal Information

Depuis le 1er janvier 2004, toutes les organisations qui recueillent, utilisent ou communiquent des renseignements personnels dans le cadre d'activités commerciales sont assujetties à la <i>Loi sur la protection des renseignements personnels et les documents électroniques</i> (LPRPDE). La LPRPDE a été adoptée par le Canada en réponse aux craintes toujours plus nombreuses exprimées par le public à l'égard de l'utilisation abusive des renseignements personnels par le secteur privé. La Loi a un vaste champ d'application et des incidences sur tous les types d'organisations du secteur privé.

FRE 1216 La gestion du temps*

Hour/s: .75

English Translation: Time Management

Ce cours traite des rudiments de la gestion du temps et inclut des outils pour établir les objectifs, tenir des registres, et planifier votre temps. Il inclut des méthodes pour identifier des activités moins rentables et des pertes de temps, ainsi que des suggestions pour s'en débarrasser. Il offre des astuces pour organiser votre documentation et votre environnement pour plus d'efficacité, il a également d'autres suggestions pratiques pour prendre le contrôle de votre temps et votre vie avec des outils et techniques simples qui ont fait leurs preuves.

COURSE

DESCRIPTION

FRE 1217 Communications Commerciales*

Hour/s: 5

English Translation: Business Communications

Modules include Redaction Commerciale: Rapports et Offres de Service, Structure et Presentation des Rapports - English Translation, Communiquer au Niveau du Relationnel, Des Presentations Gagnantes, Letiquette du Courriel, La Correspondance Commerciale: Comment la Reussir, and Communiquer au Niveau du Relationnel

FRE 1218-1220 Not Yet Assigned

Hour/s: X

FRE 1221 La delegation*

Hour/s: 1

Lorsque vous déléguez certaines tâches, tout le monde est gagnant: vous disposez du temps nécessaire pour accomplir votre travail, tandis que vos employés développent de nouvelles compétences, une plus grande confiance en leurs capacités ainsi qu'un sens de responsabilité envers l'entreprise. Ce module vous permettra de vous familiariser avec les éléments de la délégation de tâches ainsi que les approches permettant de déléguer avec succès.

FRE 1222 Not Yet Assigned

FRE 1223 Communication Claire*

Hour/s: 1

English Translation: Clear Communication

Ce cours présente les techniques utilisées dans l'art de persuader les autres. Il vous montre comment utiliser le plan d'écriture 3 x 3 pour organiser et composer les messages. Il présente aussi une boîte à outils des nouvelles techniques utilisées pour rédiger des messages interne, de vente, des communiqués de presse, des demandes et ajustements et des demandes d'action persuasifs.

FRE 1224 Not Yet Assigned

COURSE

DESCRIPTION

FRE 1225 Communication et Leadership*

Hour/s: 4

English Translation: Communication and Leadership

Modules include Vendre Votre Idee (Sell Your Idea), Accroître Vos Aptitudes Oratoires (Increase Your Oratory Skills), Communiquer des Messages Négatifs (Communicating Negative Messages), Communiquer en Équipe (Communicate as a Team) and Communiquer au Travail (Communicate at Work).

FRE 1226-1232 Not Yet Assigned

FRE 1233 Gestion de Projet*

Hour/s: 4

English Translation: Project Management

Le présent cours a été conçu pour présenter la gestion de projet et en définir la terminologie, mais également pour présenter les limites et les responsabilités fondamentales de toute personne participant au processus de gestion de projet. Il s'agit d'un cours d'introduction aux principes de base de la gestion de projet.

FRE 1234-1235 Not Yet Assigned

COURSE

DESCRIPTION

FRE 1236 La Gestion de Conflit*

Hour/s: 1.5

English Translation: Conflict Management

Le conflit est une composante inévitable dans une organisation. Les cadres le trouvent en général négatif, mais de récentes études ont montré que le conflit peut avoir des conséquences positives sur une organisation s'il est géré efficacement. Ce cours vous aidera à comprendre la différence entre le conflit fonctionnel et dysfonctionnel. Vous apprendrez également à utiliser le conflit fonctionnel pour augmenter l'innovation, le changement et la créativité dans votre organisation.

FRE 1237 Les Compétences Parentales*

Hour/s: .5

English Translation: Parenting Skills

Si vous avez des enfants, vous savez que le rôle de parent est l'une des tâches les plus importantes de notre vie. Pour de nombreux parents, il s'agit aussi d'une tâche difficile. Nous ne naissons pas en maîtrisant toutes les compétences nécessaires! Nous apprenons le parentage au fil du temps, en commettant des erreurs, en discutant de nos expériences et en consultant des experts dans plusieurs domaines. Il n'y a pas de manuel d'instructions, de formule magique ni de manière parfaite pour élever des enfants. Ce module vous permettra de découvrir certaines stratégies qui peuvent vous aider à devenir un meilleur parent. Compte tenu du fait que nous voulons tous que nos enfants soient heureux, en santé et pleinement fonctionnels, nous avons décidé de mettre l'accent sur le développement de l'estime de soi.

FRE 1238-1239 Not Yet Assigned

FRE 1240 Motivation des Employés*

Hour/s: 1

English Translation: Motivation of Employees

La différence entre une entreprise qui ne fait que survivre et une qui réussit réside dans l'énergie et l'engagement de ses effectifs. Une main d'œuvre motivée et dévouée est la formule d'un succès à long terme. Ce cours vous offre des conseils pratiques permettant d'identifier les facteurs de motivation de groupe ou d'individus et les facteurs mobilisateurs qui énergisent les employés. Il y a des outils, techniques et méthodes servant à redonner la vigueur au milieu de travail et d'encourager l'initiative chez chacun dans le but de faire avancer tout le monde.

COURSE

DESCRIPTION

FRE 1241 La Gestion de Votre Cheminement de Carrière*

Hour/s: 1

English Translation: Managing your Career Path - Les curriculum vitae sont des outils d'une valeur inestimable dans le processus de recherche d'emploi. La planification de carrière est un processus qui exige l'évaluation franche de vos réalisations, buts, talents et d'une manière plus importante, vos plans futurs. Ce module se concentre sur l'auto-analyse et aide à la planification de carrière, si vous voulez trouver un nouvel emploi, entreprenez une démarche latérale, obtenez une promotion ou changez de carrière au sein de la même entreprise. Le contenu du module couvre ce que vous voulez faire, où vous voulez le faire, les situations financières et plus.

FRE 1242-1243 Not Yet Assigned

FRE 1244 Etre un Brillant Superviseur*

Hour/s: 1

English Translation: Be a Brilliant Supervisor

Ce cours examine les éléments les plus importants d'une supervision réussie, en portant une attention particulière sur les individus et les compétences organisationnelles. Il propose des stratégies, des techniques et des outils permettant d'évaluer les compétences personnelles, de tirer le meilleur parti de l'équipe de travail afin de les aider à développer leurs aptitudes et d'atteindre les objectifs organisationnels. Il fournit également des conseils pour développer des relations avec votre gestionnaire et vos pairs afin de vous aider à atteindre vos objectifs de carrière.

FRE 1245 Service a la Clientele*

Hour/s: 3.5

The course consists of Créer d'Importantes Relations Avec les Clients (Create Important Relationships with Customers), Développer de Bonnes Relations Avec ses Clients (Developing Good Relationships with Customers), Service a la Clientele: Les Clients en Premier! (Customer Service: Customers First!) and L'art de Servir les Clients Difficiles (The art of serving difficult customers.) modules.

FRE 1246-1247 Not Yet Assigned

COURSE

DESCRIPTION

FRE 1248 Resolution de Probleme*

Hour/s: 1

English Translation: Team Problem Solving

La résolution des problèmes en équipe peut mener à de résultats exceptionnels - ou peut être à un désastre! En tant que chef d'équipe, vous avez la responsabilité de vous assurer que votre équipe trouve la meilleure solution. Apprenez les stratégies et astuces qui vous y conduiront.

FRE 1249 Une Culture d Entreprise Saine*

Hour/s: 1.5

English Translation: A Healthy Corporate Culture*

The course consists of Une Culture d Entreprise Saine (A Healthy Corporate Culture), Gerer Efficacement la Culture d Entreprise (Effectively Manage Corporate Culture), and Travaillez Mieux en Equipe (Work Better as a Team) modules.

FRE 1250-1251 Not Yet Assigned

FRE 1252 Conduite securitaire*

Hour/s: 2.25

English Translation: Safe driving

Le programme de la Conduite sécuritaire est conçu pour aider les conducteurs de tous les âges à comprendre beaucoup de facteurs qui pourraient contribuer à leur garantir une expérience de conduite sécuritaire dans la plupart des circonstances. Ce premier module a pour but de vous aider à apprendre les principes de la conduite sécuritaire pour devenir un conducteur prudent; à éviter les distractions fatales en prenant les précautions disponibles; enfin à pratiquer la conduite préventive afin de protéger les autres et vous-même.

FRE 1253 Loi sur la Corruption d Agents Publics Etrangers*

Hour/s: 1

English Translation: Law on the Corruption of Foreign Public Officials*

La loi sur la corruption d'agents publics étrangers est une loi canadienne créée pour empêcher la corruption d'agents publics étrangers. Cette loi a été mise en œuvre pour répondre aux exigences de la Convention sur la lutte contre la corruption d'agents publics étrangers dans le cours de leurs transactions commerciales internationales.

COURSE

DESCRIPTION

FRE 1254 La Loi Antipourriel*

Hour/s: .5

English Translation: The Anti-Spam Law

Le but de la loi canadienne antipourriel est de promouvoir l'efficacité et la capacité d'adaptation de l'économie canadienne par l'établissement d'une réglementation des pratiques commerciales qui dissuadent l'exercice des activités commerciales par voie électronique. Ce module vous donnera une vue d'ensemble de la Loi canadienne antipourriel et vous montrera comment créer un programme de conformité à la loi antipourriel dans votre organisation.

**FRE 1255-1256 Not Yet
Assigned**

Hour/s: X

COURSE

DESCRIPTION

FRE 1258-1299 Not Yet Assigned

Hour/s: 0.8

English Translation: Office security

Chaque année, environ 40 000 employés subissent des blessures dans leur milieu de travail les rendant inaptes à travailler. Ce cours vous aidera à réduire le risque de blessures en prenant les mesures de précaution adéquates.

FRE 1258 Not Yet Assigned

Hour/s: X

FRE 1259 Vivre les Changements en Milieu de Travail*

Hour/s: .5

English Translation: Living the changes in the workplace

Même si nous acceptons que le changement est une loi incontournable de la nature, nous éprouvons toujours des difficultés lorsque nos vies sont transformées. Les changements peuvent entraîner des défis ou être menaçants, mais ils peuvent aussi être gérés avec succès. En découvrant la psychologie du changement – le processus de transition qui nous permet d'entrevoir les changements d'un oeil positif – nous pouvons affronter les nouvelles réalités en toute confiance. Le changement peut être perçu comme porteur de nouvelles possibilités pour tous les employés de l'entreprise.

FRE 1260 Not Yet Assigned

Hour/s: X

FRE 1261 Un Leadership Efficace*

Hour/s: 4

English Translation: Effective Leadership

Aujourd'hui, il ne suffit plus de simplement gérer le milieu de travail. Les organisations cherchent de véritables leaders. Afin de jouer le rôle de leader, vous devez motiver vos employés à se surpasser. Vous devez également régler des conflits interpersonnels et faire face à des attitudes négatives. Un bon leader doit offrir un encadrement à ses employés tandis qu'ils et elles prennent en main de nouveaux projets et développent leurs compétences professionnelles. Ce module vous permettra de découvrir ces aptitudes fondamentales du leadership.

COURSE

DESCRIPTION

FRE 1262 Not Yet Assigned

Hour/s: X

FRE 1263 Amelioration de la Productivite Individuelle*

Hour/s: 1.25

English Translation: Individual Productivity Enhancement

« J'aimerais donc être plus productif! » Avez-vous déjà prononcé ces mots? Ce n'est pas surprenant. Nous avons tendance à croire que nous n'accomplissons pas tout ce que nous désirons. Pour être convaincus que nous avons bien réussi, nous devons déterminer ce que nous voulons obtenir dans la vie et ensuite comment nous pouvons y parvenir. Ce module vous permettra d'identifier vos objectifs ainsi que les stratégies qui vous permettront de les atteindre. Nous discuterons de la productivité et de la gestion efficace de votre temps, qui est votre ressource la plus précieuse.

La productivité est la clé du succès professionnel. Malgré les conditions économiques difficiles et un environnement concurrentiel changeant, les entreprises s'attendent à ce que leurs employés accomplissent les tâches nécessaires et assurent la viabilité de l'entreprise. Si les entreprises réduisent les effectifs, les employés les plus productifs sont souvent les moins menacés de perdre leur emploi. Lorsque les entreprises décident de promouvoir les employés, ceux qui sont les plus performants et dépassent les attentes sont souvent considérés pour une promotion. Ce cours présente des compétences en gestion des tâches et du temps qui vous permettront de devenir un employé plus précieux au sein de votre entreprise et plus productif dans votre vie personnelle.

FRE 1264 Not Yet Assigned

Hour/s: X

FRE 1265 La Gestion du Changement*

Hour/s: 1

English Translation: Change Management

Les leaders efficaces savent comment développer le changement des entreprises en douceur. C'est le seul moyen de survivre.

COURSE

DESCRIPTION

FRE 1266 Sensibilisation a la Sante Mentale*

Hour/s: .5

Nous avons tous vécu une période de deuil ou de perte au cours de notre vie. Toutefois, cela ne veut pas nécessairement dire que nous sommes en mesure de prédire notre réaction lorsque nous subissons une autre perte. Nous ne sommes pas, par ailleurs, nécessairement prêts à appuyer les personnes de notre entourage lorsqu'elles subissent une perte. Ce module ne fera pas disparaître la douleur du deuil, mais il a pour objectif d'apporter un appui aux personnes qui vivent cette période difficile et aux personnes qui désirent les aider.

FRE 1267 Creativite et innovation en milieu de travail*

Hour/s: 1.5

Les organisations doivent trouver un équilibre entre assumer la responsabilité des activités quotidiennes, de routine et le besoin d'explorer de nouvelles possibilités de croissance et d'évolution continues. À cause des pressions ininterrompues et du rythme accru d'aujourd'hui, il est devenu encore plus important d'atteindre cet objectif, mais comment?

FRE 1268 Lestime de Soi*

Hour/s: .5

Les personnes qui obtiennent ce qu'elles désirent sont trop occupées pour être tristes. Elles voient le monde d'un oeil trop positif pour laisser la place au doute et ont une détermination trop forte pour accepter la défaite. Quelle arme vous faut-il pour être un gagnant ou une gagnante? Il s'agit de l'estime de soi. L'estime de soi vous donne confiance en vous et en vos moyens. Il se peut que vous connaissiez du succès ou que vos efforts échouent. Peu importe. Vous avez confiance en vous. L'estime de soi exerce aussi une grande influence sur la manière dont nous interagissons avec notre entourage. Ce module examine l'estime de soi et la manière dont elle est créée. Nous discuterons du rôle clé que joue l'image de soi dans le développement de l'estime de soi. Nous vous donnerons aussi quelques trucs qui vous aideront à bâtir votre estime de soi et à aider les gens qui vous entourent à développer leur propre estime de soi.

FRE 1269-1299 Not Yet Assigned

Hour/s: X

X



Overview

The International Finishing Trades Institute (iFTI) LMS offers online classes for our kids ages 7 and above.

Course List

The IUPAT/iFTI Program of Study for KID courses is outlined below.

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
KID	1000-1099	Introduction to the Union and Finishing Trades		
		Course Code and Course Name	Hours	Months Valid
		KID 1000-1008 Not Yet Assigned	N/A	N/A
		KID 1009 Basic Finance* (For Kids)	.5	N/A
		KIDFr 1009 Finances Personnelles* (For Kids) – French Version	1	N/A
		KID 1010	.5	N/A
		KID 1011-1099 Not Yet Assigned	N/A	N/A
COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
KID	1100-1199	Health and Safety		
		Course Code and Course Name	Hours	Months Valid
		KID 000-194 Not Yet Assigned	N/A	N/A
		KID 1100-1162 Not Yet Assigned	N/A	N/A
		KID 1163 Fire Safety Basics*	1	N/A
		KID 1164-1199 Not Yet Assigned	N/A	N/A
		KID 195 Worried about Coronavirus? (For Kids)	.25	N/A
		KID 196-1299 Not Yet Assigned	N/A	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
KID	1200- 1299	Leadership		
		Course Code and Course Name	Hours	Months Valid
		KID 1200-1299 Not Yet Assigned	N/A	N/A



KID Course Description

Introduction to the Union and Finishing Trades

COURSE	DESCRIPTION
KID 1000-1099 Not Yet Assigned	Hour/s: X
KID 1009 Basic Finance* (For Kids)	<p>Hour/s: .5</p> <p>This course introduces children to different kinds of allowances and explores how allowances can be used responsibly. The online lessons also teach the three steps of building a budget, explain the rationale behind borrowing or renting instruments or buying used equipment, and discuss the real cost of things.</p>
KIDFr 1009 Finances Personnelles* (For Kids)	<p>Hour/s: 1</p> <p>La Petite Tirelire - English Translation: The Little Piggy Bank Dans cette version virtuelle du Livre 1, la leçon commence par l'histoire The Little Piggy Bank. Cette leçon raconte les aventures des jumeaux Tessa et Benji tandis qu'ils apprennent ce qu'est l'argent à la fois du point de vue physique et pratique. Ils constatent que les gens reçoivent de l'argent en échange de travaux et parfois, à titre de cadeau. L'argent peut être utilisé immédiatement ou on peut l'économiser pour l'utiliser plus tard.</p>
KID 1010 Investing* (For Kids)	<p>Hour/s: .5</p> <p>Investing is a large part of a saving strategy. This lesson will introduce the concept of investing and the terms investor, investment, principal and return. Also, there is a scenario when it's okay for a business to borrow money.</p>
KID 1011-1099 Not Yet Assigned	Hour/s: X

Health and Safety

COURSE

DESCRIPTION

**KID 1100-1162 Not Yet
Assigned**

Hour/s: X

KID 1163 Fire Safety Basics*

Hour/s: 1

Fires are serious. Learn the basics of fire safety to keep you and your family safe. This Fire Evacuation online training course is designed to teach children what their families can do to prevent fires at home, and what to do if a fire does occur.

**KID 1164-1199 Not Yet
Assigned**

Hour/s: X

**KID 195 Worried about
Coronavirus? (For Kids)**

Hour/s: .25

The course is designed to help 8- to 12-year old children understand and deal with the Coronavirus. The coronavirus may be making you feel worried. In this lesson, we will explore some strategies that will help you cope with your anxiety.

Portuguese Courses

Overview

The International Finishing Trades Institute (iFTI) LMS offers online classes translated in Portuguese.

Course List

The IUPAT/iFTI Program of Study for Portuguese courses is outlined below.

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
POR	1000-1099	Introduction to the Union and Finishing Trades		
		Course Code and Course Name	Hours	Months Valid
		POR 1000-POR 1107 Not yet assigned	N/A	N/A
		POR 1108 Seguranca em Escadas e Escadotes	XXX	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
POR	1100-1199	Health and Safety		
		Course Code and Course Name	Hours	Months Valid
		POR 1100-POR 1107 Not yet assigned	N/A	N/A
		POR 1108 Seguranca em Escadas e Escadotes	XXX	N/A



Portuguese Course **Description**

Health and Safety

COURSE	DESCRIPTION
POR 1100-1107 Not yet assigned	Hour/s: X
POR 1108 Seguranca em Escadas e Escadotes	Hour/s: X English Translation: English Translation: Safety on Stairs and Ladders
POR 1109-1199 Not yet assigned	Hour/s: X

Spanish Courses

Overview

The International Finishing Trades Institute (iFTI) LMS offers online classes translated in Spanish.



Course List

The IUPAT/iFTI Program of Study for Spanish courses is outlined below.

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
SPN	1000-1999	Introduction to the Union and Finishing Trades		
		Course Code and Course Name	Hours	Months Valid
		SPN 1000 Historia de la IUPAT	N/A	N/A
		SPN 1001 Empleados (US Federal) - Prevencion del Acoso para Los Empleados*	.83	N/A
		SPN 1002 Prevenir el Acoso y la Discriminacion Ilegal en Nueva York*	.75	N/A
		SPN 1003-1006 Not yet assigned	N/A	N/A
		SPN 1007 Planos Arquitectonicos*	1	N/A
		SPN 1008 Not yet assigned	N/A	N/A
		SPN 1009 Aspectos Basicos de las Finanzas Comerciales*	1	N/A
		SPN 1010-1046 Not yet assigned	N/A	N/A
		SPN 1047 Supervisores (US Federal) - Prevencion del acoso para los supervisores*	1.67	N/A
		SPN 1048-1099 Not yet assigned	N/A	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
SPN	1100-1199	Health and Safety		
		Course Code and Course Name	Hours	Months Valid
		SPN 1100C OSHA 10 Horas Construcción* (Spanish)	10	Permanent
		SPN 1101 Primeros Auxilios/Reanimacion Cardiopulmonar (RCP)/Desfibrilador Externo Automatizado (DEA)*	1	N/A
		SPN 1102-1114 Not yet assigned	N/A	N/A
		SPN 1115 Seguridad de la Carretilla Elevadora*	.5	N/A
		SPN 1116-1129 Not yet assigned	N/A	N/A
		SPN 1130C OSHA 30 Horas Construcción*	30	Permanent
		SPN 1131C WHMIS* (Spanish)	.75	12
		SPN 1132-1144 Not yet assigned	N/A	N/A
		SPN 1145 Concientizacion Sobre el Plomo y el Asbesto*	1	N/A
		SPN 1146-1168 Not yet assigned	N/A	N/A
		SPN 1169C OSHA 10 - Industrial General* (Spanish)	10	Permanent
		SPN 1170-1196 Not yet assigned	N/A	N/A
		SPN 1197 Concientizacion Sobre la Proteccion Contra Caidas*	4	N/A
		SPN 1198-1199 Not yet assigned	N/A	N/A
		SPN 100-137 Not yet assigned	N/A	N/A
		SPN 138 La Exposicion Profesional al Silice	4	N/A
		SPN 141C Concientizacion Sobre Silice Cristalina Respirable (CERTIFICACION)	4	24
		SPN 178 Estres Termico*	4	N/A
		SPN 179 -190 Not yet assigned	N/A	N/A
		SPN 191 Trabajar Desde Casa de Manera Efectiva*	.5	N/A
		SPN 192-194 Not yet assigned	N/A	N/A
		SPN 195 Preparacion para el Coronavirus para Empleadores y Empleados*	.5	N/A
		SPN 196-197 Not yet assigned	N/A	N/A
		SPN 198 Resiliencia Pandemica	18	N/A
		SPN 199 Not yet assigned	N/A	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
SPN	1200-1299	Leadership		
		Course Code and Course Name	Hours	Months Valid
		SPN 1200 Not yet assigned	N/A	N/A
		SPN 1201 Formacion para Capataces	2	N/A
		SPN 1202-1216 Not yet assigned	N/A	N/A
		SPN 1217 Comunicaciones de Negocios*	1	N/A
		SPN 1218-1252 Not yet assigned	N/A	N/A
		SPN 1253C Supervisores (Californis) - Prevencion del acoso para los supervisores de California (cumple con AB1825) (CERTIFICATION)*	2	24
		SPN 1254 Empleados (California) - Prevencion del acoso para los empleados de California (cumple con SB1343)*	1	N/A
		SPN 1255 Prevencion del Acoso (Connecticut)*	XX	XX
		SPN 1256-1259 Not yet assigned	N/A	N/A
		SPN 1260 Manejando el Estres*	1	N/A
		SPN 1261 Liderazgo Efectivo*	4	N/A
		SPN 1262-1264 Not yet assigned	N/A	N/A
		SPN 1265 Gestion de Cambio*	.5	N/A
		SPN 1266-1299 Not yet assigned	N/A	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
SPN	4000-4999	Floor Curriculum		
		Course Code and Course Name	Hours	Months Valid
		SPN 4606 Instalacion de Cesped Sintetico	1	N/A

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
SPN	7000-7999	Paint Curriculum		
		Course Code and Course Name	Hours	Months Valid

		SPN 7500 Introduccion a la Pintura con Equipo de Rociado	1	N/A
COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME		
SPN	1000-7000	Evaluations		
		Course Code and Course Name	Hours	Months Valid
		SPN 2900A CAS Evaluation (DC 51)	2	N/A
		SPN 3900A Drywall Evaluation (DC 51)	2	N/A
		SPN 5900A Glazier Evaluation (DC 51)	2	N/A
		SPN 7950A Painter Evaluation (DC 51)	2	N/A



Spanish Course **Description**

Health and Safety

COURSE	DESCRIPTION
SPN 1000 Not yet assigned	Hour/s: X
SPN 1001 Empleados (US Federal) - Prevencion del acoso para los empleados*	<p>Hour/s: 0.83</p> <p>English Translation: Employees (US Federal) - Prevention of Harassment for Employees</p> <p>Aprenda sobre sus derechos y responsabilidades como empleado en la prevención del acoso y la discriminación ilegal.</p>
SPN 1002 Prevenir el acoso y la discriminacion ilegal en Nueva York*	<p>Hour/s: .75</p> <p>English Translation: Prevent Harassment and Illegal Discrimination in New York</p> <p>El acoso y la discriminación son costosos para las organizaciones. Todo el mundo se ve afectado por las consecuencias negativas de un lugar de trabajo que permite el acoso y el comportamiento discriminatorio. Este curso electrónico está diseñado para informar a los gerentes y supervisores de sus obligaciones legales y su papel fundamental en asegurar un lugar de trabajo libre de acoso sexual.</p>
SPN 1003-1006 Not yet assigned	Hour/s: X
SPN 1003-1008 Not yet assigned	<p>Hour/s: 1</p> <p>Spanish version of COR 1007S Architectural Drawings</p> <p>Al completar con éxito este curso, el estudiante podrá ubicar e identificar especificaciones de ingeniería dentro de un conjunto de planos; localizar e identificar dibujos de ingeniería a escala y sin escala; ordenar y gestionar materiales de construcción a partir de un conjunto de planos; aumentar la credibilidad y la comunicación entre el capataz de trabajo y los ingenieros del lugar de trabajo; identificar los Códigos Nacionales de Construcción relacionados con su oficio.</p>
SPN 1008 Not yet assigned	Hour/s: X

COURSE**DESCRIPTION**

SPN 1009 Aspectos Basicos de las Finanzas Comerciales*

Hour/s: 1

English Translation: Business Finance Basics

Cada empleado desempeña una función en la gestión financiera. Las finanzas implican comprensión y tomar buenas decisiones financieras en todos los niveles organizativos. Este curso presenta información acerca de los fundamentos de las finanzas corporativas. Muestra de qué forma varias actividades de trabajo pueden y, de hecho, afectan la salud financiera de una organización. El curso introduce conceptos, ejemplos y conocimiento que empleados que no están orientados financieramente necesitan conocer para entender la función que las finanzas desempeñan en el proceso de toma de decisiones de una organización.

SPN 1010-1047 Not yet assigned

Hour/s: X

COURSE**DESCRIPTION**

SPN 1047 Supervisores (US Federal) - Prevencion del Acoso para Los Supervisores*

Hour/s: 1.67

English Translation: Supervisors (US Federal) - Harassment Prevention for Supervisors

Aprenda sobre sus derechos y responsabilidades como empleador o supervisor en la prevención del acoso y la discriminación ilegal.

SPN 1048-1109 Not yet assigned

Hour/s: X

SPN 1100C OSHA 10 Horas Construcción* (Spanish)

Hour/s: 10

ClickSafety está actualizado OSHA 10 horas Construcción forma parte de un programa en línea OSHA alcance que resulte en una válida DOL / OSHA 10-Hour Card. Este curso de formación en línea enseña a reconocer, evitar, la reducción y prevención de los riesgos para la seguridad y salud en los lugares de trabajo. Este programa también proporciona información sobre los derechos de los trabajadores, las responsabilidades del empleador y cómo presentar una queja (Certification Period: Permanent).

SPN 1101 Primeros Auxilios/Reanimacion Cardiopulmonar (RCP)/Desfibrilador Externo Automatizado (DEA)

Hour/s: 1

Respuesta de emergencia, desfibrilación externa automática y reanimación cardiovascular pulmonar de la Cruz Roja Estadounidense o de la Asociación Estadounidense del Corazón, así como respuesta de emergencia, desfibrilación externa automática y reanimación cardiovascular pulmonar.

SPN 1102-1114 Not yet assigned

Hour/s: X

SPN 1115 Seguridad de la Carretilla Elevadora*

Hour/s: .5

English Translation: Forklift Safety

Este curso de formación online sobre seguridad de la carretilla elevadora tratará sobre cómo se pueden prevenir los incidentes con carretillas elevadoras, especialmente cuando los empresarios y los trabajadores colaboran para mejorar la seguridad y la salud en el trabajo. Los montacargas o traspaletas industriales motorizados se utilizan para levantar, apilar y transferir cargas en almacenes, fábricas, patios de embarque, terminales de carga y otros lugares de trabajo.

COURSE	DESCRIPTION
SPN 1116-1129 Not yet assigned	Hour/s: X
SPN 1130C OSHA 30 Horas Construccion*	<p>Hour/s: .5</p> <p>English Translation: OSHA 30</p> <p>A través de este programa, los supervisores y trabajadores responsables de la seguridad en el trabajo asistirán a una clase de 30 horas impartida por capacitadores autorizados por OSHA. Esta capacitación de OSHA ayuda a garantizar que los trabajadores estén más informados sobre los peligros en el lugar de trabajo, sus derechos y contribuyan a la productividad de nuestra nación (Período de certificación: Permanente).</p> <p><i>NOTE: This course is provided by a third-party vendor. Upon enrollment, a fee of \$189.00 will be charged to the District Council training fund. See Third Party price list.</i></p>
SPN 1131C WHMIS* (Spanish)	<p>Hour/s: .75</p> <p>Este curso de formación en línea de WHMIS está diseñado para todos los empleados de Canadá que trabajan con productos químicos peligrosos o que podrían estar expuestos a ellos en el lugar de trabajo. En este curso describiremos el Sistema de Información de Materiales Peligrosos en el Lugar de Trabajo (o WHMIS) y explicaremos cómo aplicarlo de manera efectiva en su trabajo. WHMIS está alineado con la norma mundial, el Sistema Globalmente Armonizado de Clasificación y Etiquetado de Productos Químicos (SGA) (Certification Period: 12 months).</p>
SPN 1132-1144 Not yet assigned	
SPN 1145 Concientizacion Sobre el Plomo y el Asbesto*	<p>Hour/s: 1</p> <p>English Translation: Lead and Asbestos Awareness</p> <p>El curso contiene módulos de Concientización sobre la seguridad del plomo y Concientización sobre el asbesto.</p>
SPN 1146-1168 Not yet assigned	Hour/s: X

COURSE

DESCRIPTION

SPN 1169C OSHA 10 - Industrial General* (Spanish)



Hour/s: 10

OSHA 10-Hour General Industry is an OSHA-Authorized online training course that provides relevant safety material to help workers stay safe on the job. It is an online version of OSHA's popular Outreach training program. When you successfully complete the OSHA 10-Hour General Industry course, you will receive a valid U.S. Department of Labor OSHA 10 Card (Certification Period: Permanent).

NOTE: This course is provided by a third-party vendor. Upon enrollment, a fee of \$68.00 will be charged to the District Council training fund. See [Third Party price list](#).

SPN 1170-1196 Not yet assigned

SPN 1197 Concientizacion Sobre la Proteccion Contra Caidas*

Hour/s: 4

English Translation: Fall Protection Awareness - Las caídas son la segunda causa principal de muerte en el lugar de trabajo. Estas muertes por caídas podrían haberse evitado con la capacitación y el equipo adecuados.

SPN 1198-1199 Not yet assigned

SPN 100-137 Not yet assigned

SPN 138 La Exposicion Profesional al Silice

Hour/s: 4

English Translation: Occupational Exposure to Silica - OSHA ha declarado que más de 2 millones de trabajadores de la construcción están expuestos a los peligros de la sílice en sus lugares de trabajo; Esto podría deberse a su trabajo con un material de construcción a base de sílice o a la exposición a la sílice en el lugar de trabajo debido a lo que otras personas a su alrededor están trabajando o haciendo y a las condiciones ambientales y del sitio.

SPN 141C Concientizacion Sobre Silice Cristalina Respirable (CERTIFICACION)

Hour/s: 4

English Translation: Respirable Crystalline Silica Awareness - Este es un curso de concientización sobre la sílice de 4 horas que aborda los peligros de la sílice que se encuentran en los lugares de trabajo de la industria de la construcción. Este curso cubre el reconocimiento de peligros, los efectos en la salud de la exposición a la sílice cristalina respirable en el aire, un resumen de 29 CFR 1926.1153

COURSE**DESCRIPTION****SPN 178 Estres Termico***

Hour/s: 4

English Translation: Heat Stress - La capacitación seguirá la guía de OSHA provista en Mejores prácticas para el desarrollo, entrega y evaluación de subvenciones de capacitación de Harwood [OSHA 3686-09 2010] y los Criterios mínimos de capacitación en salud y seguridad de NIEHS de 2018. La capacitación sobre el estrés por calor incorporará técnicas de aprendizaje para adultos, modelos efectivos para la capacitación de los trabajadores y documentación de evaluación de la capacitación.

Este material se elaboró gracias a la subvención número SH-39126-SH2 de la Administración de Seguridad y Salud Ocupacional del Departamento de Trabajo de los EE. UU. No refleja necesariamente las opiniones o políticas del Departamento de Trabajo de EE. UU., ni la mención de nombres comerciales, productos comerciales u organizaciones que implique el respaldo del Gobierno de los Estados Unidos.

SPN 179-190 Not yet assigned**SPN 191 Trabajar Desde Casa de Manera Efectiva***

Hour/s: 0.5

English Translation: Work From Home Effectively - La COVID-19 está cambiando la forma en que vivimos y trabajamos. De repente, muchos de nosotros estamos trabajando desde casa e intentando hacerlo de manera efectiva en medio del caos de las cuarentenas, el autoaislamiento, los cierres de las escuelas y las noticias constantes.

SPN 192-194 Not yet assigned**SPN 195 Preparacion para el Coronavirus para Empleadores y Empleados***

Hour/s: 0.5

English Translation: Coronavirus Preparation for Employers and Employees

Los coronavirus son una gran familia de virus que pueden causar enfermedades en animales o humanos. En los seres humanos, se sabe que varios coronavirus causan infecciones respiratorias que van desde el resfriado común hasta enfermedades más graves. El coronavirus descubierto más recientemente causa la enfermedad del coronavirus 2019 (COVID-19).

SPN 196-197 Not yet assigned

COURSE

DESCRIPTION

SPN 198 Resiliencia Pandemica

Hour/s: 16

English Translation: Pandemic Resiliency

El curso promueve la resiliencia de las instalaciones educativas durante pandemias de enfermedades infecciosas (con un enfoque en COVID-19) o brotes. El plan de estudios enfatizará los estudios de casos actuales y la investigación que afecta a las poblaciones objetivo de capacitación y los tipos de instalaciones, la concientización sobre enfermedades infecciosas (con énfasis en COVID-19), el desarrollo de un Plan de Pandemia (con un ejemplo de Plan COVID-19), la selección e implementación de salud y seguridad. controles, y encontrar y usar fuentes confiables de información.

SPN 199 Not yet assigned

Health and Safety

COURSE	DESCRIPTION
SPN 1200 Not yet assigned	Hour/s: X
SPN 1201 Formacion para Capataces	<p>Hour/s: 2</p> <p>Establishes the role of a foreman in maintaining safety and maintenance standards on the job. The students will learn the importance of properly performing personnel functions in accordance with union agreements and company policies while creating and maintaining open communication and working relationships with coworkers, supervisors and other tradesmen.</p> <p>(Spanish translation done by Idea Translations 3.29.2021)</p>
SPN 1202-1216 Not yet assigned	Hour/s: X
SPN 1217 Comunicaciones de Negocios*	<p>Hour/s: 1</p> <p>English Translation: Business Communications</p> <p>Este curso de capacitación en línea de Running Effective Meetings explora estrategias que lo ayudarán a planificar y llevar a cabo reuniones efectivas y obtener resultados observables.</p> <p>La mayoría de los gerentes dedican entre el 25% y el 80% de su tiempo a reuniones, muchas de las cuales son líderes. Y, según algunas estimaciones, aproximadamente el 50% de este tiempo es improductivo. Una reunión eficaz comienza con la preparación que se hace con anticipación. Sin un plan, sus reuniones no serán mejores que antes. Llevar a cabo la reunión requiere estar alerta y atento a lo que está sucediendo, y tener en cuenta el objetivo de promover la sabiduría y el talento combinados del grupo. Sin resultados, el tiempo y la energía gastados en la reunión se perderán esencialmente. Este curso le proporcionará técnicas que fomentarán la participación y conducirán a una reunión productiva.</p>
SPN 1218-1252 Not yet assigned	Hour/s: X

COURSE**DESCRIPTION**

SPN 1253C Supervisores (Californis) - Prevencion del acoso para los supervisores de California (cumple con AB1825) (CERTIFICATION)*	Hour/s: 2 English Translation: Supervisors (California) - Harassment Prevention for California Supervisors (complies with AB1825) - Aprenda sobre sus derechos y responsabilidades como empleador o supervisor en la prevención del acoso y la discriminación ilegal. Este curso cumple con el AB1825 (Certification Period: 24 months).
SPN 1254 Empleados (California) - Prevencion del acoso para los empleados de California (cumple con SB1343)*	Hour/s: 1 English Translation: Employees (California) - Harassment Prevention for California Employees (complies with SB1343) Aprenda sobre sus derechos y responsabilidades como empleado en la prevención del acoso y la discriminación ilegal. Este curso cumple con el SB1343 (Certification Period: 24 months).
SPN 1255 Prevencion del Acoso (Connecticut)*	Hour/s: 2 English Translation: Harassment Prevention (Connecticut) - El acoso y la discriminación ilegal le están haciendo daño a las organizaciones, los empleados y la sociedad en general. Esta capacitación le dará a los empleadores y supervisores y un mayor entendimiento sobre el acoso y la discriminación ilegal, como se pueden prevenir y el proceso a seguir cuando se presenta una queja.
SPN 1256-1259 Not yet assigned	Hour/s: X
SPN 1260 Manejando el Estrés*	Hour/s: 1 English Translation: Managing Stress - Claramente, es importante saber qué es el estrés y cómo se presenta. Sin embargo, tal vez sea más importante saber qué hacer al respecto. En este curso, exploraremos algunas estrategias que lo ayudarán a manejar el estrés.
SPN 1261 Liderazgo Efectivo*	Hour/s: 4 The course contains five eLearning Leadership lessons, including Desarrollar un equipo de liderazgo fuerte, Dar Una Retroalimentacion Efectiva, Liderazgo Efectivo, Empoderar a su Gente, and Poder de Liderazgo Personal.
SPN 1262-1264 Not yet assigned	

COURSE**DESCRIPTION****SPN 1265 Gestion de Cambio***

Hour/s: .5

English Translation: Change Management

Los líderes efectivos saben cómo desarrollar compañías respetuosas del cambio. Es la única forma de sobrevivir. Este curso describe cómo planear el proceso de cambio, abordar las fases de transición y asegurar resultados.

**SPN 1266-1299 Not yet
assigned**

Floor Coverer

COURSE

DESCRIPTION

SPN 4606 Instalacion de Cesped Sintetico

Hour/s: 1

English Translation: Synthetic Turf Installation - Conozca las ventajas de utilizar césped de campo sobre césped real, vea las aplicaciones en las que se puede utilizar el césped, conozca los riesgos para la salud que implica la instalación de césped y comprenda cómo se instala el césped de campo.

Painter

COURSE

DESCRIPTION

SPN 7500 Introduccion a la Pintura con Equipo de Rociado

Hour/s: 1

English Translation: Introduction to Spray Painting. Este curso expondrá a los pintores a los diferentes métodos de aplicación de recubrimientos por aspersión que se utilizan en la actualidad. Además de una discusión sobre los requisitos de seguridad, los estudiantes aprenderán los conceptos básicos de los siguientes sistemas de pulverización: convencional o con aire, alto volumen y baja presión, sin aire, sin aire asistido por aire y sistemas de pulverización electrostáticos.



Vocational English as a Second Language (VESL)

VESL Program Description

The Vocational English as a Second Language (VESL) is an educational program co-sponsored by the IUPAT and FTI to meet the ever-changing needs of the industry and the affiliates it serves. The VESL curriculum is designed to improve, at a functional level, the English skills of IUPAT members while developing vocational skills in specific trades. IUPAT members with limited English speaking skills are able to join and succeed in mainstream apprenticeship courses after one year of VESL instruction, including OSHA 10.

Apprentices successfully completing this program apply their skills and abilities to continue their apprenticeship as Painters, Drywall Finishers, Glaziers, or Floor Coverers.

Program Scope

This program is an in-depth orientation to the IUPAT VESL training program for first year apprentices. Participants will learn about the methodology behind this unique approach and the structure of the modules, as well as participate in hands-on practice of instructional techniques. In addition, we will discuss how and why to build a successful VESL program, including its key elements and common challenges and pitfalls.

Program participants will evaluate the needs of their own training programs and, with the help of the instructor, design plans to meet their unique needs. This program is for IUPAT instructors, training directors, and anyone else whose responsibilities include meeting the training needs of Limited English Proficient (LEP) workers.



Learning Objectives

- Identify some characteristics and needs of adult English language learners.
- Identify key principles of communicative VESL instruction.
- Articulate relevant characteristics and impacts of immigration to the United States.
- Identify and demonstrate instructional techniques utilized in the IUPAT VESL modules.
- Use techniques to improve his or her own comprehensibility in any interaction with an Limited English Proficient union member.
- Describe the most popular and effective current VESL program models in the trades.
- Conduct a needs analysis as an essential first step in VESL program development.
- Articulate his or her own goals and plan for utilizing VESL and/or addressing language-related needs at the local level.



Suggested Program of Study

The IUPAT/iFTI Program of Study for VESL is outlined below.

COURSE ALPHA	COURSE NUMERIC	CATEGORY NAME	RI Hrs
VSL	300	VSL 300 OSHA 10 Forklift Safety Respiratory Protection Confined Space Entry Electrical Safety Fall Protection Hazard Communication Hearing Conservation Ladder Safety Lockout Tagout Man Lifting Devices Scaffold Safety Solvents and Hazardous Materials	10
VSL	301	VSL 301 Drywall Finisher Pre-Job Inspection Preparation Filling by Hand (Broad Knife) Filling Compounds Finishing Boxes Hand Embedding and Wiping Tapes Materials of the Drywall Trade Tools of the Drywall Trade	40
VSL	302	VSL 302 Floor Coverer Introduction to the Trade Materials of the Trade Surface Preparation Communication Basic Mathematics & Measurement	40
VSL	303	VSL 303 Glazier Basic Math for the Glazing Trade Glass Cutting and Fabrication Glass Replacement and Putty Glazing Hand Tools Introduction to Sealants Mirror Job Layout & Measurement Mirror Mounting Methods Swing Stage Using Transits and Levels	40



VESL Course Description

COURSE

DESCRIPTION

VSL 300 OSHA 10 - VSL

Hours: 10

Including workers with limited English proficiency in the unionized construction workforce has created challenges for IUPAT locals and their training programs. In this course, participants will learn about vocational English as a Second Language (VESL) and be fully introduced to the VESL first-year apprenticeship curriculum for OSHA 10 developed by IUPAT and FTI. In addition, realities and myths about immigrants and immigrations, the characteristics and needs of adult English language learners, and strategies for successful communication, training, and VESL program development will be covered.

VSL 301 Drywall Finishers

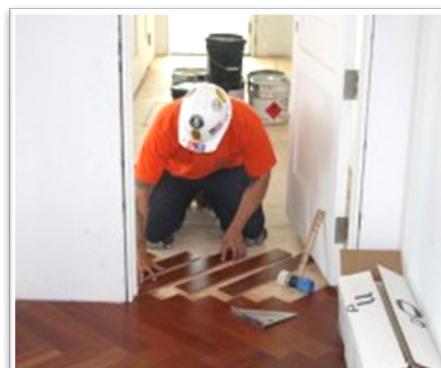
Hours: 40

Including workers with limited English proficiency in the unionized construction workforce has created challenges for IUPAT locals and their training programs. In this course, participants will learn about vocational English as a Second Language (VESL) and be fully introduced to the VESL first-year apprenticeship curriculum for the Drywall Finisher developed by IUPAT and FTI. In addition, realities and myths about immigrants and immigrations, the characteristics and needs of adult English language learners, and strategies for successful communication, training, and VESL program development will be covered.

VSL 302 Floor Coverers

Hours: 40

Including workers with limited English proficiency in the unionized construction workforce has created challenges for IUPAT locals and their training programs. In this course, participants will learn about vocational English as a Second Language (VESL) and be fully introduced to the VESL first-year apprenticeship curriculum for the Floor Coverer developed by IUPAT and FTI. In addition, realities and myths about immigrants and immigrations, the characteristics and needs of adult English language learners, and strategies for successful communication, training, and VESL program development will be covered.



COURSE

DESCRIPTION

VSL 303 Glaziers

Hours: 40

Including workers with limited English proficiency in the unionized construction workforce has created challenges for IUPAT locals and their training programs. In this course, participants will learn about vocational English as a Second Language (VESL) and be fully introduced to the VESL first-year apprenticeship curriculum for the Glazier developed by IUPAT and FTI. In addition, realities and myths about immigrants and immigrations, the characteristics and needs of adult English language learners, and strategies for successful communication, training, and VESL program development will be covered.

VSL 304 Painter-Decorators

Hours: 40

Including workers with limited English proficiency in the unionized construction workforce has created challenges for IUPAT locals and their training programs. In this course, participants will learn about vocational English as a Second Language (VESL) and be fully introduced to the VESL first-year apprenticeship curriculum for the Painter-Decorator developed by IUPAT and FTI. In addition, realities and myths about immigrants and immigrations, the characteristics and needs of adult English language learners, and strategies for successful communication, training, and VESL program development will be covered.



Sample Curriculum

After reviewing the list of available courses in the FTI Program of Study and the FTI Learning Management System (LMS), your District Council can set up levels/years/grouping for your curriculum. Please contact the Curriculum Department to set up your courses in the Learning Management System (LMS).

The next pages provide sample curriculum for COR and trade-related courses.

COR Curriculum

CORE LEVEL I		
COURSE #	COURSE NAME	HOURS
COR 1000	History of IUPAT	4
COR 1001	Sexual Harassment*	1
COR 1100C	OSHA 10 - Construction/ Introduction to Health and Safety*	10
COR 1101C	First Aid/CPR/AED (CERTIFICATION)	8
COR 1102C	Respiratory Protection (CERTIFICATION)	4
COR 1103	Ergonomics in the Workplace*	4
COR 1104	Hand and Power Tool Safety Awareness	6
COR 1108S	Ladder Safety (Student Access)	(2)
COR 1110	Master Fire stopping 101 Certification (3M) (elective)	(4)
		38

CORE LEVEL II		
COURSE #	COURSE NAME	HOURS
COR 1002	Survival of the Fittest	2
COR 1003	Green Building Awareness	4
COR 1004S	Basic Mathematics and Measurements (Student Access)	4
COR 1005	Fractions-Decimals-Percents-Angles I	4
<i>COR 1006</i>	<i>Advanced Math - No Online Lesson</i>	<i>4</i>
COR 1105C	Lead Abatement Worker (CERTIFICATION)	8
		26

CORE LEVEL III		
COURSE #	COURSE NAME	HOURS
COR 1007	Architectural Drawings	16
COR 1008	Basic Computing - No Online Lesson	4
COR 1200C	Communication Skills (CERTIFICATION)	4
COR 1201	Foreman Training	2
COR 1202C	Supervisor Training (CERTIFICATION)	2
COR 1203C	Project Management (CERTIFICATION)	4
		32

CAS Curriculum

COATING APPLICATION SPECIALIST LEVEL I		
COURSE #	COURSE NAME	HOURS
COR	Level I	38
CAS 2000	Health and Safety Awareness for the Industrial Painter	40
CAS 2001	Bridge Rigging	8
CAS 2100	Introduction to Industrial Coatings	32
CAS 2101	Coating Application Specialist (CAS) Examination Preparation	8
CAS 2200	Introduction to Corrosion Theory and Control	40
CAS 2300	Introduction to Surface Preparation	12
CAS 2301	Ambient Conditions	12
CAS 2302	Nozzle Blasting Systems	12
CAS 2303	Abrasives	12
CAS 2304	Portable Wheel Blast Equipment	12
		210

COATING APPLICATION SPECIALIST LEVEL II		
COURSE #	COURSE NAME	HOURS
COR	Level II	26
CAS 2400	Introduction to Spray Application	12
CAS 2401	Mixing and Thinning	16
CAS 2402	Conventional Spray Application	16
CAS 2403	Airless Spray Application	16
CAS 2404	Air-Assisted Airless Spray Applications	16
CAS 2405	Measuring and Monitoring Results/Inspection	16
CAS 2500	Composition and Types	32
CAS 2501C	Quality Control Specialist (CERTIFICATION)	32
CAS 2502	Quality Assurance: Inspection	32
		214

COATING APPLICATION SPECIALIST LEVEL III		
COURSE #	COURSE NAME	HOURS
COR	Level III	32
CAS 2600	Concrete Specialty	16
CAS 2601	Plural Components	16
CAS 2602	Thermal Spray	16
CAS 2603	Waterjetting	16
CAS 2604	Electrostatic Spray	8
CAS 2605	Pipeline Coatings	4
CAS 2606	Powder Coatings	4
CAS 2700	Introduction to Quality	4
CAS 2701	Quality Resources	4
CAS 2702	Quality Management and Document Controls	4
CAS 2703	Instrument Calibration	4
CAS 2704	Inspecting Coating Applications	4
CAS 2705	Document and Specification Review	4
CAS 2706	Inspection Plans	4
CAS 2707	Preventative and Corrective Actions	4
CAS 2708	Inspection Reports	4
CAS 2709	Work Plans and Process Control Procedures	4
		152

DRY Curriculum

DRYWALL FINISHER LEVEL I		
COURSE #	COURSE NAME	HOURS
COR	Level I	38
DRY 3000	Finisher Health and Safety Overview	8
DRY 3100	Fundamentals of the Drywall Trade	10
DRY 3101	Glossary for the Drywall Trade	10
DRY 3200	Materials of the Drywall Trade	40
DRY 3300	Tools of the Drywall Trade	40
DRY 3400	Filling Compounds	16
		160

DRYWALL FINISHER LEVEL II

COURSE #	COURSE NAME	HOURS
COR	Level II	26
DRY 3102	Pre-Job Inspection	10
DRY 3401	Hand Embedding Wiping Tapes	16
DRY 3402	Filling by Hand	48
DRY 3403	Wiping Angle Tapes	10
DRY 3404	Specialties of the Drywall Trade I	10
DRY 3500	Automatic Taping Tools	30
DRY 3501	Finishing Boxes	10
DRY 3502C	AMES Specialties of the Drywall Trade II (CERTIFICATION)	10
DRY 3503	Specialties of the Drywall Trade III	10
		170

DRYWALL FINISHER LEVEL III

COURSE #	COURSE NAME	HOURS
COR	Level III	32
DRY 3103	Job Economics for the Drywall Trade	10
DRY 3600	Repairs and Corrections	24
DRY 3700	Texturing	24
DRY 3800	Exterior Insulation and Finishing Systems (EIFS)	12
		102

FLR Curriculum

BASIC FLOOR COVERER

COURSE #	COURSE NAME	HOURS
COR	Level I	38
FLR 4000	Health and Safety Awareness I	32
FLR 4001	Health and Safety Awareness II	8
FLR 4100	Introduction to the Floor Covering Trade	8
FLR 4101	Introduction to Sheet Goods	8
FLR 4102	Measuring and Estimating	8
FLR 4103	Top Set Cove	8
FLR 4104	Glossary for the Floor Covering Trade	8
FLR 4200	Surface Preparation	16
FLR 4201	Specialties of the Floor Covering Trade I	16
FLR 4202C	ARDEX Concrete Toppings and Coatings (CERTIFICATION)	20
FLR 4300	Materials and Tools of the Floor Coverer Trade	20
FLR 4301	Special Jobs	20
		198

RESILIENT FLOOR COVERER

COURSE #	COURSE NAME	HOURS
COR	Level II	26
FLR 4400	Tile Layout and Installation	20
FLR 4401	Safety Floors	20
FLR 4402	FORBO Specialties of the Floor Covering Trade II	20
FLR 4403	Specialties of the Floor Covering Trade III	20
		106

LAMINATE AND HARDWOOD FLOOR COVERER

COURSE #	COURSE NAME	HOURS
COR	Level III	32
FLR 4500	Laminate Flooring	10
FLR 4501	Hardwood Flooring	24
		92

CARPET AND SYNTHETIC TURF FLOOR COVERER

COURSE #	COURSE NAME	HOURS
FLR 4600	Introduction to the Carpet Industry	12
FLR 4601	Installation Tools and Equipment	12
FLR 4602	Floor Preparation	12
FLR 4603	Carpet Installation	12
FLR 4604	Carpet Installations: Woven and Patterned	12
FLR 4605	Vinyl Back Carpet and Carpet Tiles	12
FLR 4606	Field Turf Installation	12
		80

GLZ Curriculum

GLAZIER LEVEL I

COURSE #	COURSE NAME	HOURS
COR	Level I	38
GLZ 5000	Safe Work Practices	4
GLZ 5001	Safety Glazing Codes	4
GLZ 5002	Shop Machinery Safety	4
GLZ 5100S	Math for the Glazing Trade (Student Access)	8
GLZ 5101	Hand Tools for the Glazier	8
GLZ 5102	Glass Cutting and Fabrication	8
GLZ 5103	Anodized and Painted Finishes	8
GLZ 5401	Mirrors Layout	6
		88

GLAZIER LEVEL II		
COURSE #	COURSE NAME	HOURS
COR	Level II	26
COR 1126C	OVERTON Rigging and Signaling (CERTIFICATION)	8
GLZ 5104	Transits and Leveling Instruments	8
GLZ 5200	Sealants and Compatibility	20
GLZ 5300	Plans and Drawings	5
GLZ 5301	Scales and Dimensions	5
GLZ 5302	Basics of Sketching	5
GLZ 5303	Blueprint Reading: Perimeter Sheets	5
GLZ 5304	Blueprint Reading: Shop Drawings*	5
GLZ 5305	Blueprint Reading: Architectural	5
GLZ 5400	Entrances and Related Hardware	6
GLZ 5500	Glass Replacement and Putty Glazing	10
		108

GLAZIER LEVEL III		
COURSE #	COURSE NAME	HOURS
COR	Level III	26
GLZ 5003	Swing Stage	4
GLZ 5306	Perimeter Sheets Navigation	5
GLZ 5402	Setting Blocks-Spacers-Tapes-Gaskets	4
GLZ 5403	Curtain Wall Systems	8
GLZ 5404	Security Glazing	6
GLZ 5405	Structural Glazing	6
GLZ 5406	Introduction to Storefronts	8
GLZ 5307	Contract Documents and Specifications	5
GLZ 5412	Aluminum Entrances	8
GLZ 5413	Locks and Bolts	6
GLZ 5414	Revolving Doors	6
GLZ 5415	Panic Hardware	6
		104

GLAZIER LEVEL IV		
COURSE #	COURSE NAME	HOURS
GLZ 5201	Sealant Application Testing and Failure	20
GLZ 5407	Spandrel and Architectural Panel Systems	6
GLZ 5409	Insulated and High Performance Glass	4
GLZ 5410	Plastics	4
GLZ 5411	Aquariums-Shower Doors-Tub Enclosures-Showcases	4
GLZ 5416	Ribbon Window Systems	6

GLZ 5417	Pressure Wall	6
GLZ 5501	Weatherization	10
GLZ 5600	Introduction to Skylights and Sloped Glazing	20
GLZ 5700	Introduction to Photovoltaics	20
GLZ 5800C	Construction Shielded Metal Arc Welding (SMAW) - Welding Fillet (CERTIFICATION)	80
		180

Hydro Blaster/Vacuum Technician Curriculum

HYDRO BLASTER/VACUUM TECHNICIAN LEVEL I		
COURSE #	COURSE NAME	HOURS
COR	Level I	38
HVT 6000	Health and Safety Awareness	16
HVT 6100	Introduction to Hydro Blasting Trade	16
HVT 6200	Hydro Blasting Equipment	24
HVT 6300	Hydro Blasting Techniques	24
HVT 6400	Hydro Blasting Maintenance	16
HVT 6301	Wet Abrasive Blasting (Elective)	(8)
		134

HYDRO BLASTER/VACUUM TECHNICIAN LEVEL II		
COURSE #	COURSE NAME	HOURS
COR	Level II	26
HVT 6500	Vacuum Technician Techniques	40
HVT 6600	Vacuum Technician Maintenance	40
HVT 6700	C.D.L. Class B with HAZMAT	40
		146

HYDRO BLASTER/VACUUM TECHNICIAN LEVEL III		
COURSE #	COURSE NAME	HOURS
COR	Level III	32

PNT Curriculum

PAINTER-DECORATOR LEVEL I		
COURSE #	COURSE NAME	HOURS
COR	Level I	38
PNT 7000	Health and Safety Awareness I	8
PNT 7100	Introduction to the Painting and Decorating Trade	16
PNT 7101	Tools and Equipment of the Trade	20
PNT 7102	Protecting Adjacent Surfaces	12
PNT 7103	Covering and Masking	12
PNT 7200	Surface Preparation and Cleaning I	12
PNT 7201	Paint Failures and Remedies	8
PNT 7300	Brush and Roller Applications I	20
		146

PAINTER-DECORATOR LEVEL II		
COURSE #	COURSE NAME	HOURS
COR	Level II	26
PNT 7001	Health and Safety Awareness II	16
PNT 7202	Pre-Job Analysis for Wood Structures	8
PNT 7203	Surface Preparation and Cleaning II	12
PNT 7301	Brush and Roller Applications II	10
PNT 7400	Identifying Paints, Coatings, and Materials	16
PNT 7401	Color and Light	8
PNT 7500	Introduction to Spray Painting	8
PNT 7501	Airless Spray Systems	8
PNT 7502	Conventional Air-Spray Systems	8
PNT 7503	Electrostatic Spray Systems	8
PNT 7504	HVLP Spray Systems	8
PNT 7505	Metalizing Systems	8
		144

PAINTER-DECORATOR LEVEL III		
COURSE #	COURSE NAME	HOURS
COR	Level III	32
PNT 7003	Health and Safety Awareness III	16
PNT 7302	Brush and Roller Applications III	30
PNT 7600	Introduction to Wallcoverings	2
PNT 7601	Preparation of Materials and Surfaces	6
PNT 7602	Wallcovering Applications	8
PNT 7700	Abrasive and Water Blasting	8
PNT 7701	Wet Abrasive Blasting	8
PNT 7800	Wood and Wood Products	2
PNT 7801	Wood Preparation	4
PNT 7802	Wood Finishes	8
PNT 7803	Post Application (Wood Finishes)	2
PNT 7900	Introduction to Special Decorative Finishes	2
PNT 7901	Decorative Finishes I - Faux Effects	8
PNT 7902	Decorative Finishes II - Faux Effects	6
		142



For further information about areas of study, consult the iFTI website at www.ifti.edu or contact the iFTI office at 800.276.7289 or email ftiinternational@ifti.edu

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