



International Finishing Trades Institute (iFTI)

FTI 4220 ARDEX Flooring TTT

Course Information

Course Hours: 20

Course Description: 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.

Course Objectives:

Unit 1: Priming

- Identify the types of primers.
- Identify the reasons why to prime.
- Describe, discuss and demonstrate ARDEX P51, ARDEX P82, ARDEX P 4 and ARDEX EP2000.

Unit 2: Concrete and Concrete Surface Conditions

- Describe the difference between a subfloor and a substrate.
- Identify and describe the cements used in patching and leveling materials.
- Define hydraulic cement.
- Define burnished concrete.
- Identify and describe the different ways to cure concrete.
- Identify and describe the different types of curing compounds.
- Describe the chemistry of concrete as well as the chemistry of fly ash in concrete.
- Describe the positives and negatives of fly ash in concrete.
- Identify and describe precast concrete, light-weight concrete, tilt-wall concrete, cast-in-place concrete (metal decking, removable forms and post-tension)
- Discuss resilient flooring preparation methods as describe in ASTM F710.
- Identify and describe the different types of surface contaminants.
- List and discuss reasons for not using chemical methods for cleaning the substrate.

Unit 3: Joints and cracks in concrete

- Describe and discuss the different joints in a concrete slab.
- Describe methods of repairing cracks in a concrete slab.

Unit 4: Mechanical preparation of concrete

- Identify and describe the different concrete surface profiles from the International Concrete Repair Institute.
- Describe and demonstrate the following mechanical processes: Shot Blasting, Scarifying, Grinding and Shaving.
- Describe the applications for which each machine can be used.

Unit 5: Thick pour gypsum underlayments.

- Identify, describe and how to prepare, thick pour gypsum underlayments.
- Describe, discuss and demonstrate ARDEX K 22 F.

Unit 6: Adhesive residue

- Qualify the type of adhesive residue on a concrete surface that is suitable to receive a patch or leveling material.
- Describe how to properly prepare an adhesive residue to receive a patch or leveling material.
- Describe failures related to improper substrate preparation.

Unit 7: Wood, Metal, Resilient and other Non-Porous Substrates

- Properly prepare wood, metal, resilient, and other non-porous surfaces.
- Identify the type of wood suitable for self-leveling materials.
- Identify the type of wood suitable for patching materials.
- Identify and describe the different types of surface contaminants.
- Identify and describe the mechanical processes used for preparation.
- Describe, discuss and demonstrate ARDEX K15.
- Describe, discuss and demonstrate ARDEX FEATHER FINISH.

Unit 8: Self-leveling vs Trowel Grade Materials

- Identify and describe important factors regarding material selection
- Describe, discuss and demonstrate ARDEX SD-P.
- Identify and describe patching and leveling materials for use under high RH flooring systems and moisture mitigation systems.
- Describe, discuss and demonstrate ARDEX MRF and ARDEX K 60.
- Describe, discuss and demonstrate the proper tools for the installation of self-leveling underlayments.

Unit 9: Flat, Smooth and Level

- Identify and describe the difference between flat, smooth and level.
- Describe the different CSI (Construction Specifications Institute) divisions for a project.
- Describe the differences and disparity between Division 3 Concrete and Division 9 Finishes.
- Describe the differences between FF/ FL numbers and the 10-foot straightedge.
- Describe, discuss and demonstrate ARDEX K 40, ARDEX K 13 and ARDEX V 1200.

Unit 10: What could go wrong?

- Describe failures related to improper substrate preparation.
- Describe failures related to improper selection of the repair material.
- Describe failures related to improper application of the repair material.

Prerequisite/s: None

Instructor



Course Lead: Seth Pevarnik

Resume Link: <https://ifilms.org/faculty/seth-pevarnik/>

Policies and Procedures

COE Accreditation

The International Finishing Trades Institute (iFTI) is [accredited](#) by the Commission of the Council on Occupational Education ([COE](#)) and is entitled to the recognition and associated privileges of this designation. 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.



iFTI Course Catalog

For a complete list of iFTI course offerings, please refer to the [iFTI Course Catalog](#).

Diversity Statement

The iFTI champions [diversity in the workplace](#) and committed in building an inclusive culture. We believe 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 training or the workplace. Although our union is more diverse than ever, we still have so much work to do.

Policies and Procedures

The campus policies and procedures are found in the [Student Handbook](#).

Travel and Lodging Reservations

Upon the receipt of the final class registration confirmation and course schedule, you will be advised to call Metropolitan Travel Service to obtain the best coach fare ticket. No air travel costs will be reimbursed if not made through Metropolitan Travel.

If you will be driving to the event, send your anticipated arrival and departure dates and times, so appropriate hotel reservations can be made. Hotel reservations will be made on your behalf after the iFTI receives your final travel itinerary.

Travel and lodging reservations will be direct billed to the iFTI. If regionally appropriate for you to drive your vehicle, the iFTI will reimburse mileage at \$.30/mile (not to exceed the lowest 30-day advance airfare, or the shortest route as determined by Google Maps). iFTI is not financially responsible for any costs associated with travel, lodging, meals or incidentals for accompanying guest(s).

In the event you must cancel, the iFTI and Metropolitan Travel Service must be notified within 7 days of the travel date or the District Council/Local Union will be responsible for any cancellation fees.

Dress Code

The dress code for iFTI classes in Hanover, Maryland is casual. Clothing should be neat, clean, and well-kept. Please no shorts, flip flops, sleeveless shirts, worn tennis shoes, sweatpants, sweatshirts, jeans with holes, rips, tears or any clothing that contains inappropriate language or that could be offensive. If you will be delivering a presentation / teach back, please dress in a professional manner.

Please call the iFTI at 410.564.5850 with any questions or concerns.