



ARDEX AIA/CEU Learning Unit Programs

- ***Nine Learning Programs***
- ***Presented in 1-hour formats***
- ***Each presentation qualifies for HSW credit hours***
- ***Polished Concrete Presentation qualifies for an additional SD credit***

I. Designing Installation Systems for Gauged Porcelain Tile Panels

This program discusses the definition of gauged body porcelain, advantages, challenges, handling, tools and equipment, substrate considerations, installation methods and materials, and specification considerations. This program will cover:

- Basic types of gauged porcelain tile and its properties
- Learning the uniqueness of the product
- Time and money saving methods
- Waterproofing, substrate requirements, expansion joints, etc.
- Effective installation methods

II. Designing Installation Systems for Tile and Stone

This program discusses the basic types and properties of ceramic tile, reviews various setting materials and waterproofing compounds, different installation types, various substrates to receive tile, and the designing of joints. The program will cover:

- Considerations in selecting tile
- Water absorption of tile
- ANSI requirements
- ANSI installation methods
- ANSI specifications for materials
- Grouts
- TCNA installation details
- Addressing movement joints



III. Early Phase Concrete Management Systems

This program discusses how to transform current concrete finishing practices by eliminating the final float/steel trowel finishing steps. You will also learn the importance of using a moisture migration and self-leveling system to address concrete moisture and floor flatness tolerances. The program will cover:

- Leveling concrete subfloors with minimal disruption to other trades
- Mitigating slab moisture with minimal disruption to other trades or delays
- Eliminating floor tolerance issues due to placement, finishing or slab curl
- Performing moisture mitigation and slab leveling at the least costly and most opportune time

IV. Preparing Substrates to Receive Patches and Leveling Compounds

This program will examine substrate requirements in the flooring industry and provide guidelines for the repair of various substrates using Portland cement-based self-leveling compounds and trowel-grade patches. You will learn about substrate preparation and the causes of failures of patching and leveling compounds and about flooring adhesives. The program will cover:

- Categories of flooring failures
- Proper methods of substrate preparation
- Failure mode for patching and leveling compounds
- Types of flooring adhesives
- Failure modes for adhesives
- Adhesives FAQs

V. Moisture in Concrete

This program addresses the many sources of moisture in concrete, reviews the available methods for evaluating moisture emissions, how moisture affects concrete and flooring, how to prevent costly moisture-related floor covering failures and covers remediation options. The program will also cover:

- Correct placement of vapor barriers
- Curing times for concrete
- Modes of water movement through concrete
- Flooring manufacture recommended moisture levels for floor coverings.



VI. Adhesive Systems for Floor Coverings

This program discusses the evolution and development of flooring adhesives, reviews the different categories of flooring adhesives, VOC regulations and proper substrate preparation and application of flooring adhesive systems. The program will cover:

- The purpose of using an adhesive
- How an adhesive works
- Advantages and disadvantages of using certain types of adhesives
- Chemical make-up of an adhesive
- Environmental issues
- Requirements for a good adhesive bond
- Performance characteristics of an adhesive

VII. Polished Concrete

This program discusses the process of polishing standard concrete slabs and concrete topping materials. You will also learn about the history of polished concrete, the tools and equipment used during the process, the different methods available and the advantages of polished concrete floors. The program will cover:

- Sustainable qualities of polished concrete
- Maintenance
- Design options
- Chemical treatments available
- Testing methods
- Applications

VIII. Concrete Balcony Restoration

This program discusses the process in which to restore exterior concrete with a focus on balcony restoration. You will also learn about the common balcony types and the methods and processes used to restore damaged concrete. The program will cover:

- Review concrete fundamentals
- Forces that lead to concrete deterioration
- Common manifestations of concrete deterioration
- Common repair strategies and installation of products



IX. Exterior Stone Veneers and Pavers

This program gives a better understanding of the various types of stone veneer and pavers. It also identifies system components including, substrate preparation, waterproofing, and antifracture membranes. The program will also cover:

- Types of commonly-used natural and manufactured veneer and paving stones
- Geological stone definitions, various design patterns, and available finishes
- In-depth look at most common setting methods and industry-related best practices
- Substrate prep, waterproofing, anti-fracture, and bonding grout/mortars overview