



AIA Continuing Education – Masonry Courses

York Building Products offers a variety of educational opportunities for designers. There is no program charge, and with your input on menu selection, York Building Products will provide the meal. To schedule a presentation, please contact:

Jack Kennedy, CCM Direct: 717.771.3504 Cell: 717.885.3190 Email: jkennedy@yorkbuilding.com

ACCURATE AND SIMPLIFIED STRUCTURAL DESIGN: DDSCM18 (1 hr. LU, HSW)

- Generate code-compliant building layouts and detailing in minutes.
- Understand loading requirements and distribution for wind, seismic, dead, live, and snow loads.
- Create proper structural design of concrete masonry construction and architectural configurations using standardized design methodologies.
- Observe illustrations of software interface, user inputs, and design outputs.

ACOUSTICAL MASONRY SYSTEMS: YBP-MD-MA (1 hr. LU, HSW)

- Recognize historical beginnings and development of suppressing noise within hard surface environments to improve occupant comfort.
- Describe the working dynamics of volume resonators.
- Compare technology, applications, and methods of volume resonators.
- Identify specific benefits and advantages of Acoustical Concrete Masonry Units.
- Apply design and construction practices to these masonry units.

BIM - MODEL DRIVEN CONSTRUCTION AND DESIGN FOR MASONRY: YMIQ-BIM (1 hr. LU, HSW)

- Study masonry materials and their relationship to other trades through detailed models.
- Understand the importance of masonry layout and its impact on other construction processes.
- Explore laser scans and clash detection for improved masonry solutions.
- Learn about new support for masonry design and rendering in Revit.

CAPTIVATING AESTHETICS WITH LASTING PERFORMANCE: YBP-MD-AWP (1 hr. LU, HSW)

- Identify the performance characteristics of concrete masonry wall systems.
- Compare available unit design options for form and function.
- Learn how mortar tooling and bond patterns enhance the performance and the aesthetics of design.
- Review examples of how these design elements have been incorporated into completed, award winning projects.

HOW TO CONTROL CRACKS IN NEW BUILDINGS: YBP-MD-CC (1 hr. LU, HSW)

- Compare the primary causes of cracking in concrete masonry.
- Review ways to minimize the potential for cracking.
- Understand the utilization of horizontal reinforcement and the placement of control joints.
- Describe how to maintain and increase a fire resistance rating at a control joint.

HOW TO KEEP WATER OUT FOR SUSTAINABILITY AND PERFORMANCE: YBP-MD-MW (1 hr. LU, HSW)

- Describe the composition of prevalent flashing products and their impact on sustainability and life cycle costs.
- Explain how to specify through-wall flashings to avoid compatibility issues.
- Understand the performance characteristics, different types of commonly used cavity wall materials and how to create a resilient flashing system.
- Examine necessary accessories and the potential challenges with installation.

INCREASING ENERGY EFFICIENCY: YBP-MD-ETP (1 hr. LU, HSW)

- Explain the role of thermal mass in building design, building energy efficiency, and occupant comfort.
- Discuss the role R-values and U-factors play in the design of energy-efficient building envelopes and code compliance.
- Examine the design options in concrete masonry construction for compliance with the International Energy Conservation Code (IECC).
- Evaluate strategies to maximize energy performance, including placement and types of insulation, with concrete masonry systems.

MANUFACTURING AND CONSTRUCTION OVERVIEW: YBP-OCMC (1 hr. LU, HSW)

- Discover the different types of manufactured concrete products and the process by which they are produced.
- Review masonry-specific terminology and definitions; including code-specific terms as well as regional nomenclature.
- Identify standards covering manufactured concrete products and the relevant physical requirements stipulated within these standards.
- Describe products and materials used in the construction of concrete masonry systems, including reinforcing steel, grout, and mortar; and the relevant code provisions covering these materials.

SELECTING MASONRY CEMENTS: YBP-MD-SC (1 hr. LU, HSW)

- Understand the differences between Cement, Concrete, Masonry Cement and Mortar.
- Become familiar with the types and components of mortar.
- Review the details of ASTM C270 “Standard Specification for Mortar for Unit Masonry” and ASTM C780 “Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry”, and their respective use and application in the specifications and during construction.
- Discuss the aesthetic impact of mortar color and tooling.
- Describe proper clean down procedures.