



## Residential Concrete Education

- 1. Building with Insulating Concrete Form (ICFs) – 8 Hour Course**

This course provides the traditional homebuilder with the information needed to evaluate and start using ICFs. This full-day course covers the advantages and costs of ICF construction, the components and materials used, design and planning considerations, the logistics of ICF construction, and important business and marketing considerations.
- 2. Cast-in-Place Concrete Construction – 4 Hour Course**

This half day course offers homebuilders the information they need to evaluate site conditions, work with concrete, and construct and maintain foundation walls. It discusses proper excavation techniques, safety considerations, and water management procedures. The course also covers the logistics of cast-in-place concrete foundation construction with references to design standards and code requirements.
- 3. Concrete Mix Designs, Construction Guidelines and Troubleshooting – 4 Hour Course**

Designed to give home builders and superintendents the information needed when using concrete for a paving or floor project. Learn how to intelligently sourcing concrete flatwork, specify work accurately and efficiently, properly evaluate the work done, and perform troubleshooting and repairs effectively.
- 4. Handling Moisture Behind Brick Veneers to Back-Up Walls – 4 Hour Course**

Provides home builders and superintendents with the information needed to understand the essentials of brick veneer construction. Learn how to select and work with a masonry crew, ensure the building is properly prepared to receive brick, and coordinate and make corrections or repairs when necessary. Also, produce a quality brick veneer at a controlled cost with efficient use of supervisory time.
- 5. Best Practices for Concrete Pavers and Segmental Retaining Wall Systems – 4 Hour Course**

Designed to give home builders and superintendents thorough knowledge of new homescaping products. Students will gain an understanding of the steps necessary to achieve efficient, trouble-free installation of segmental retaining walls, pavers and related products, and gain information on how to incorporate these products into a residential construction jobsite.
- 6. Concrete Masonry Home Building – 4 Hour Course**

Designed to give home builders and superintendents the knowledge needed to build with concrete masonry and oversee work effectively. This course is intended to outline the best way to adapt home plans, find and supervise proficient masonry crews, guide work for efficient and high quality results and coordinate other crews that interface with masonry materials.
- 7. Disaster Mitigation for Residential Construction – 4 Hour Course**

An overview of construction techniques and materials designed to provide greater protection against natural hazards such as hurricanes, tornados, flood, wildfires and earthquakes. Areas covered include: foundation systems, above-grade walls, roofing systems, door and window openings, and roof-to-wall connections and cladding. Students will be given insight into how disaster-resistant construction practices can build your business, thus benefiting both the builder and the buyer.

**8. Insulating Concrete Forms Installation – 1 – 2 Day Course**

In depth course provides students with thorough information and basic skills in the correct construction of walls using insulating concrete forms. Participants will learn about the materials and products involved, the critical aspects of wall design and assembly, and the steps to building walls correctly and efficiently. Students will have the background needed to participate as productive members of a supervised ICF construction crew.

**9. Precast Concrete for Single and Multi-Family Home Building – ½ Day Course**

Covers the components and principles of residential building construction using precast concrete wall panels, flooring/roofing systems and ancillary precast products, how to locate quality products and erectors, preparing and sequencing the project, directing and evaluating the work, and avoiding potential problems and ways to correct any which may occur. Supervisors will have the information they need to initiate the construction of precast concrete residential jobsites properly.

**10. Fiber Cement Siding for Residential Construction**

Prepares jobsite supervisors and home builders on the proper handling, installation and storage techniques associated with fiber cement siding. A background on product specifics will also be covered.