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## CONTRACTORS INSTITUTE – COURSE SYLLABUS

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### **2010 ADVANCED BUILDING CODE: BUILDING/STRUCTURAL SUMMARY Internet**

#### **COURSE DESCRIPTION**

This course will provide contractors and construction industry professionals with one hour of advanced code training, specifically regarding changes and updates to the 2010 Florida Building Code on Building and Structural topics.

#### **NUMBER OF HOURS**

There is one 50-minute interactive internet hour.

#### **COURSE OBJECTIVES**

Upon completion, contractors and construction industry professionals will be able to:

- Identify the changes and updates to this portion of the Florida Building Code
- Define key terminology used by this portion of the Florida Building Code
- Identify the scope of the provisions of this portion of the Florida Building Code
- Recognize areas of applicability that require compliance by this portion of the Florida Building Code

#### **COURSE DETAIL AND TOPICAL OUTLINE**

- 10 minutes     *Summary of changes/updates in 2010 Building Code:*  
Florida Building Code vs. International Building Code  
**CHAPTER 1: ADMINISTRATION**  
Administration and Inspections  
**CHAPTER 2: DEFINITIONS**  
Both new and changed  
**CHAPTER 3: USE & OCCUPANCY**  
Section 312 Utility, Group U  
Section 303 Assembly Group A  
**CHAPTER 4: SPECIAL DETAILED REQUIREMENTS**
- 18 minutes     *Summary of changes/updates in 2010 Building Code:*  
**CHAPTER 5: BUILDING HEIGHTS AND AREAS**  
Section 503 Height and area limitations  
Section 506 Area modifications  
Section 508 Mixed Use & Occupancy  
**CHAPTER 6: TYPES OF CONSTRUCTION**  
Section 602 construction classification  
Table 601 Fire resistance rating requirements for building elements  
Table 602 Fire resistance rating requirements for exterior walls

08 minutes	<p><i>Summary of changes/updates in 2010 Building Code:</i></p> <p><b>CHAPTER 7: FIRE AND SMOKE PROTECTION FEATURES</b></p> <p>Section 704 Rating of Structural Members</p> <p>Section 705 Exterior Walls</p> <p>Section 706 Fire Walls</p> <p>Section 709 Fire Partitions</p> <p><b>CHAPTER 9: FIRE PROTECTION SYSTEMS</b></p> <p>Section 903 Automatic Sprinkler Systems</p> <p>Section 903.2 Where Required...</p> <p>A-1, A-2, etc... 3 stories and greater...</p>
07 minutes	<p><i>Summary of changes/updates in 2010 Building Code:</i></p> <p><b>CHAPTER 10: MEANS OF EGRESS</b></p> <p>Section 1001 Administration</p> <p>Section 1002 Definitions</p> <p>Section 1005 Minimum Width</p> <p>Section 1007 Accessibility</p> <p>Section 1008 Doors</p> <p>Section 1009 Stairways</p> <p><b>CHAPTER 14: EXTERIOR WALLS</b></p> <p>Section 1403 and 1404 Weather Protection</p>
07 minutes	<p><i>Summary of changes/updates in 2010 Building Code:</i></p> <p><b>CHAPTERS 15-27 (SELECTED)</b></p> <p>Chapter 15: Rooftop Structures</p> <p>Chapter 16: Structural Design</p> <p>1609 Wind loads, ASCE 7-10, Exceptions</p> <p>Wind speeds and Wind speed maps</p> <p>Exposure Categories, Florida specifics</p> <p>Chapter 17: Structural Tests &amp; Special Inspections, Florida specific</p> <p>Chapter 18: Foundations, Termite issues</p> <p>Chapter 19: Concrete, ACI 318</p> <p>Chapter 20: Light Metal Alloys</p> <p>Chapter 21: Masonry</p> <p>Chapter 22: Steel</p> <p>Chapter 23: Wood</p> <p>Conventional light-frame construction</p> <p>Chapter 24: Glass &amp; Glazing</p> <p>Chapter 25: Gypsum Board</p> <p>Chapter 26: Plastic</p> <p>Chapter 27: Electrical, NFPA 70, NEC 08</p>

*Total Time: 50 minutes*

## **METHOD OF PRESENTATION**

This distance learning course is formatted specifically for internet delivery. Course presentation will require student participation through interactive prompts and section reviews. This method of course presentation assures the contractor will have direct control of course delivery.

Course material will be presented using multimedia formats, including but not limited to: static text, video clips, audio clips, photos and animation. Additionally, participants will have the opportunity to link to related resource websites and will be able to access instructor support through e-mail (24 hour) and telephone communication (during normal daytime office hours).

## **METHOD OF EVALUATION**

Upon enrollment, the course participant is assigned a key code to access to his/her chosen course. Monitoring of activity is to be tracked and maintained along with evaluation scores for any questions. The timing of the voice files in the delivery of the course is recorded to ensure that the course is completed in no less than 50 minutes. A log is kept which records each time the student logs into the course, time taken in that session, and how many slides are reviewed (sample report attached). Students have access to the course administrator and instructor by e-mail or phone. As the student studies course objectives, his/her comprehension of course material is evaluated through interactive multiple choice questions given throughout the course to reinforce learning. The student must correctly answer these questions to continue to the next section. Incorrect answers will allow the student to review previous information. A final total score of 75% will be required to receive credit for the course. (A sample copy of the course log containing log-in/log-out times, test scores and student enrollment information page, which includes student's identity verification data, student's password and student's mother's maiden name, is attached for your review.) The student will have the ability to complete this course in its entirety at one sitting or may choose to work on the course in 'sessions' – at his/her own pace.

Upon course completion, the distance learning software notifies our course administrator. Upon review of the student's course log, a distance learning certificate of course completion will be e-mailed to the student. A copy of this certificate is attached for review.

This interactive internet course is monitored continually, allowing materials to be updated and difficulty levels adjusted according to evaluation scores, timetables and student comments.

## **QUALIFICATION OF INSTRUCTORS**

Although this is an interactive internet course, qualifications of those responsible for the compilation of the content of the materials presented are attached. These instructors will provide technical and student support.

## **MINIMUM QUALIFICATIONS FOR ANY FUTURE INSTRUCTORS**

Any future instructor shall be qualified by education or experience to teach a course within their area of expertise (or parts of the course assigned) as it relates to our course content. Pursuant to CILB rule 61G4-18.005, qualifications for these instructors shall include:

- A four year college degree or graduate degree in which this instructor may teach courses related to their field of study.
- An active or inactive state certified or registered contractor's license with at least five years experience may teach any technical course regarding construction within the scope of their license. No contractor whose license has been suspended or revoked shall teach or serve as a continuing education instructor.