

CONTRACTORS INSTITUTE COURSE SYLLABUS

2004 FLORIDA BUILDING CODE: **Mechanical/Energy Technical Core Summary** (Internet Delivery)

COURSE DESCRIPTION:

This course is designed to provide contractors with one hour of advanced core training, specifically regarding changes and updates to the Florida Building Codes on Mechanical/Energy topics.

NUMBER OF INTERACTIVE INTERNET HOURS: One 50-minute hour.

BEHAVIORAL OBJECTIVES OF THIS COURSE:

This seminar will improve the contractor's ability to understand, interpret, and apply the mechanical/energy provisions of the 2004 Florida Building Code.

COURSE DETAIL AND TOPICAL OUTLINE:

10 min: Summary of changes/updates in 2004 Building Code:

CHAPTER 3: GENERAL REGULATIONS

Section 302: Protection of Structure

Section 304: Installation

Section 306.5 Equipment and appliances on roofs/elevated structures

Section 307.2.2 Condensation disposal

Section 312: Heating & Cooling load calculations

10 min: Summary of changes/updates in 2004 Building Code:

CHAPTER 4: VENTILATION & CHAPTER 5: EXHAUST SYSTEMS

Section 402: Natural ventilation

Section 403: Mechanical ventilation

Section 501: General

Section 502: Required protection for exhaust systems

Section 504.6 Domestic clothes dryer ducts

Section 505: Domestic kitchen exhaust equipment

Section 506: Commercial kitchen hood ventilation system ducts & exhaust equipment

10 min: Summary of changes/updates in 2004 Building Code:

*CHAPTER 6: DUCT SYSTEMS, CHAPTER 7: COMBUSTION AIR,
CHAPTER 9: POOL & SPA HEATERS & CHAPTER 11: REFRIGERATION
& ENERGY EFFICIENCY*

Section 601.4: Balanced return air

Section 602.2.1 Plenums

Section 603.4.2: Fibrous Glass Duct, Rigid

Section 7: Combustion Air

Section 916.1 Pool & Spa heaters

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Section 1101: General (Refrigeration)
Section 1101: General (Energy Efficiency)

10 min: Summary of changes/updates in 2004 Building Code:

ADMINISTRATION & ENFORCEMENT, COMMERCIAL BUILDING COMPLIANCE

Section 104: Inspections
Section 400: Administration
 400.0.A Method A
 400.0.B Method B
 400.0.C Method C
 400.0.C.1 Scope
 Exceptions
 400.2 Performance Calculation Procedures
 400.3.ABC.3 Table
Section 401: Fenestrations
 401.1.C
 401.1.C.3
Section 406: Air Infiltration
Section 407: Space Cooling Systems
Section 408: Space Heating Equipment
Section 409: Ventilation
Section 410: Air Distribution Systems
Section 412: Water Heating Systems

10 min: Summary of changes/updates in 2004 Building Code:

RESIDENTIAL BUILDING COMPLIANCE METHODS

Section 601: Fenestrations
Section 607: Space Cooling Systems
Section 610: Air Distribution Systems
Chapter 13: General Mechanical System Requirements
Chapter 14: Heating & Cooling Requirements
Chapter 15: Exhaust
Chapter 16: Duct Systems
Chapter 17: Combustion Air

TOTAL TIME: 50 MINUTES

METHOD OF PRESENTATION:

This distance learning course is formatted specifically for internet delivery. Students participate through interactive prompts and section review, assuring that the student will have direct control over course delivery. Material will be presented by means of text, photos and audio clips. Additionally, students will have the opportunity to link to related resource websites and will be able to access instructor/technical support through e-mail or telephone communication.

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METHOD OF EVALUATION:

Upon enrollment, students are assigned a password for access to the course. This interactive internet course is composed in sections (modules) to allow students to complete the course in its entirety at one sitting or work on the course in 'sessions' at his/her own pace. Monitoring of student activity is tracked and maintained, along with section evaluation scores. Log in and lot out times are recorded and are accessible to the course administrator, instructor and student. As the student achieves course objectives, his/her comprehension of the material is evaluated through interactive multiple choice questions at the end of each section. Incorrect answers will route students to review information previously presented. A distance learning certificate of course completion is issued when the course is complete and verified by a course administrator.

This 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 an internet course, qualifications of those responsible for the internet delivery of the content of materials presented are attached (Robert J. Koning, Rhonda E. Koning, and Richard Elzey).

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 rule, qualifications for these instructors shall include:

- * A four year college 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.