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## CONTRACTORS INSTITUTE COURSE SYLLABUS

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### 2004 FLORIDA BUILDING CODE: **Indoor Environmental Quality Overview** (Internet Delivery)

#### COURSE DESCRIPTION:

This course is designed to provide contractors with two hours of advanced core training, specifically regarding Indoor Environmental Quality topics.

NUMBER OF INTERACTIVE INTERNET HOURS: Two 50-minute hours

#### BEHAVIORAL OBJECTIVES OF THIS COURSE:

This seminar will improve the contractor's ability to understand, interpret, and apply the indoor environmental quality issues, including moisture problems, air contaminants, combustion pollutants, and overall health issues.

#### COURSE DETAIL AND TOPICAL OUTLINE:

10 min:      *WHAT IS INDOOR ENVIRONMENTAL QUALITY?*

- Assessment of building performance
- National Health Concern
- Review course outline
- Exposure

10 min:      *INDOOR AIR POLLUTANTS*

- Sources of indoor air pollutants
  - Physical
  - Biological
  - Chemical
  - Biologically Active Chemicals
- Sources of moisture
- Excessive Moisture
- Other causes of moisture problems

10 min:      *DEFINITIONS/IDENTIFICATION*

- Controlling moisture at its source
- Ventilation
- Nighttime cooling
- Biological pollutants (Bioaerosols)
  - Pollen
  - Spores
  - Dust
  - Bacteria
  - Viruses
  - Misc.
- Where biological pollutants may be found in the home
- Definitions of pollutants

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Bacteria  
Viruses  
Fungi

10 min:      *CONTROLLING MOLD & CLEANUP*

Controlling Molds  
What is Stachybotrys  
Mold Cleanup  
    small areas  
    large areas

10 min:      *IDENTIFYING & CONTROLLING CONTAMINANTS*

Dust mites - identifying and controlling  
Detecting contaminants  
    Fungi  
    Animal dander  
    Dust mites  
    Pollen  
    Viruses  
    Bacteria  
General control measures for reducing biological pollutants

10 min:      *COMBUSTION POLLUTANTS, CHEMICAL INTERACTIONS, RADON*

Sources of combustion pollutants in the home  
Air quality problems from combustion pollutants  
Backdrafting & Carbon Monoxide  
    Alarms/detectors  
Chemical Interactions  
    Terms, Definitions  
    Products with VOCs

10 min:      *FORMALDEHYDE, OZONE PRODUCTION, RADON*

Formaldehyde sources & detection  
Safety precautions  
Ozone Production  
Radon - definitions, sources  
Radon detection, prevention  
    Soil Gas Suction  
    Reduce Pressure-Driven Air Flow  
Radon and Real Estate

10 min:      *LEAD & ASBESTOS*

Hazards of lead and asbestos  
Lead and Lead based paint and remodeling  
Reducing lead hazards  
Asbestos sources  
What to do when you find asbestos

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10 min:      *IEQ HEALTH ISSUES*  
Overall health issues  
Sick Building Syndrome  
Building Related Symptoms  
Building Related Illness  
Multiple Chemical Sensitivity  
Facts about asthma  
Health and Economic Effects  
Asthma casual agents  
Exposures that worsen disease  
Exposures associated with asthma  
Molds and Health  
Respiratory Infections  
Allergic Rhinitis  
Health Effects of Combustion Pollutants  
Health Concerns of VOCs  
Health Effects of Formaldehyde Exposure  
Asbestos Health Threat

10 min:      *CHECKLIST FOR IMPROVING INDOOR ENVIRONMENTAL QUALITY*  
Improving IEQ  
Building Envelope Design and Construction  
HVAC Design  
Interior Design  
Landscaping  
Owner Behavior

TOTAL TIME: 100 MINUTES (two 50-minute hours)

### 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 log 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.