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*Knowledge to build on*

February 7-11, 2005  
THE ORLEANS HOTEL • LAS VEGAS, NEVADA  
[www.iccsafe.org/training](http://www.iccsafe.org/training) • [www.educode.us](http://www.educode.us)



International Code Council  
Professional Development Services  
4051 West Flossmoor Road  
Country Club Hills, IL 60478-5795

## REGISTRATION INFORMATION

**Registration includes:** Instruction, lunch and break refreshments. Session handout materials may be included. Code and other reference books are **NOT** provided. Please read session descriptions for required materials. Code books may be purchased from the on-site bookstore during the conference.

### 3 EASY WAYS TO REGISTER

**1 REGISTER ONLINE** at ICC's secure website: [www.iccsafe.org/training](http://www.iccsafe.org/training). Follow the easy online directions. Registrations must be received by ICC no later than January 23, 2005.

**2 REGISTER BY FAX:** Complete the registration form on the next page and fax it to **ICC at (708) 799-2651**. Registrations must be received by ICC no later than January 23, 2005.

**3 REGISTER BY MAIL:** Complete the registration form on the next page and mail to: **Seminar Registrar, International Code Council, Chicago District Office, 4051 West Flossmoor Road, Country Club Hills, Illinois 60478-5795**. Registrations must be received by ICC no later than January 23, 2005.

### IMPORTANT DETAILS

#### CONFIRMATION

Registrations will be confirmed in writing within two days of receipt of your registration form.

#### CANCELLATION POLICY

If you need to cancel, ICC must be notified in writing by January 21, 2005 in order for you to receive a full refund. Allow 14 additional days for reimbursement. No requests for refunds will be accepted after January 21, 2005.

#### CONFERENCE LOCATION

The Orleans Hotel, 4500 W. Tropicana Avenue, Las Vegas, Nevada. Convention is located on mezzanine level. Facilities are in compliance with the Americans with Disabilities Act regulations. EduCode will provide auxiliary aids and special needs services upon request.

#### ROOM RESERVATIONS

Room reservations must be made by January 5, 2005. Any reservations received after this date will be accepted on a "space available" basis. Contact The Orleans Hotel directly at: 800-675-3267. Identify yourself as an EduCode attendee when making your room reservations to receive the EduCode rate of \$59 per night from Sunday through Thursday and \$99 per night Friday through Saturday.

#### SUBSTITUTIONS

When a registrant cannot attend a seminar a substitute may attend. Any person substituting for a registered participant **MUST** notify ICC's registrar in advance.

## 2005 EduCode Session Descriptions

### ARCHITECTURAL

#### Multiple-Family Construction and the IBC Session Code: ED05-001



Provides an overview of the requirements for multiple-family dwellings in the *International Building Code*® (IBC®). Type VA construction may be the most difficult type of construction by which to build a structure. Discussions include the design, construction and inspection of Group R-2 occupancies, including building planning, fire-resistance-rated construction, fire protection requirements and means of egress requirements.

*Instructor: Stephen L. Thomas, Colorado Code Consulting*

#### IBC Accessibility Requirements Session Code: ED05-002



Covers the scoping provisions for accessibility in the *International Building Code* and the technical provisions of the ICC/ANSI A117.1, *Accessible and Usable Buildings and Facilities*. The seminar will also discuss differences between the provisions enforced by a building department and the American Disabilities Act Accessibility Guidelines

*Instructor: Tom G Meyers, Colorado Code Consulting*

#### Building Areas, Fire Areas and Mixed Occupancies Session Code: ED05-003

Provides a comprehensive discussion of the major compartmentation concepts of the *International Building Code* (IBC), focusing on those requirements that deal with building size, sprinkler options and mixed-use buildings. Seminar is applicable to all aspects of the regulatory/design community, including design professionals, plans examiners, fire officials and building officials. Major topics include: allowable building areas and area increases; unlimited area buildings; use of fire area concept; fire area construction; incidental use areas; accessory use areas; and separated and nonseparated uses.

*Instructor: Brent Snyder*

#### Advanced Means of Egress Components Session Code: ED05-004

Focuses on the means of egress component requirements contained in Chapter 10 of the 2003 IBC. Prescriptive means of egress component provisions will be reviewed. The differences in corridor construction requirements contained in the *Uniform Building Code*™ (UBC) and *International Building Code* (IBC) will be pursued.

**\*REQUIRED: 2003 International Building Code; Calculator**  
*Instructor: Gregory R. Keith, Ph.D.*

#### Advanced Means of Egress Design Session Code: ED05-005

Covers the means of egress design requirements contained in Chapter 10 of the 2003 IBC. The differences in the approach to the "three-part" means of egress between the *Uniform Building Code* (UBC) and *International Building Code* (IBC) will be highlighted.

**\*REQUIRED: 2003 International Building Code; Calculator**  
*Instructor: Gregory R. Keith, Ph.D.*

### CODE ENFORCEMENT

#### P.A.C.E. Pro-Active Code Enforcement Session Code: ED05-006



Are you feeling like all you do is give warnings? Grant extensions? Are your cases running your life? Does resolution and compliance seem unattainable? If so, you may just need to pick up the P.A.C.E.! Class focuses on case management and enforcement options that will help motivate your violators to come into compliance. It will address policies and procedures that force cases forward. It will cover the task force, neighborhood approach as well as how to be pro-active one case at a time, or "pro-active in a reactive world." Learn how to say "no" and "I don't care" without being offensive and generating personnel complaints.

*Instructor: Doug Leeper, Code Compliance Manager, City of Riverside, CA*

#### Properly Documenting and Enforcing the Codes through Photography Session Code: ED05-007



Overviews how to properly use a camera; how a camera works; taking photographs that mean something; how to properly store pictures; and how to properly use photographs to your advantage in documenting a case and using them in court.

*Instructor: Frank C. Morris, C.B.O., CEAP, M.C.P., President, Tri-State Consultants*

**Legal Aspects of Code Administration** Session Code: ED05-008



Explains the legal aspects of code administration. Items covered will include local, state and federal law as it pertains to the code enforcement industry; administrative law; constitutional law; related property law concepts; liability for intentional and negligent wrongdoing; civil rights action; and the role as a witness.

*Instructor: Frank C. Morris, C.B.O., CEAP, M.C.P., President, Tri-State Consultants*

**Understanding the 2003 International Property Maintenance Code® (IPMC®)** Session Code: ED05-009



Covers the philosophy, attitudes and values surrounding property maintenance enforcement. Minimum requirements of the code will be discussed as well as the rationale and intent for enforcement. Finally, basic inspection principles and techniques will be outlined.

*Instructor: Daniel A. Peterson, B & F Technical Code Services, IL*

**Certification Test Preparation Class** Session Code: ED05-010



This class will be helpful to anyone who is planning to take the ICC Property Maintenance and Housing Inspector or Certified Zoning Inspector exam after the conference or at anytime in the near future. The class will cover AACE certification history, the logistics of the certification process and how to prepare for the exam. We will discuss the proper use of code books in an open book exam so it will be helpful to bring the appropriate code books with you to the class.

*Instructor: Mike Millikan, City of Elgin, IL*

**LEADERSHIP ESSENTIALS**

**Motivating Manager: Building a High Morale Workplace** Session Code: ED05-011

The number-one concern of managers and leaders nationwide isn't technology — it's employee motivation. This module provides hard-hitting, real-life examples of leaders who know how to successfully tap the motivation within others and bridge the performance gap in the process.

*Instructor: Anne Bruce, Author and Speaker*

**Communications Excellence for Managers** Session Code: ED05-012

Sharpening communications skills is an ongoing process. Learn how to sharpen the skills you have now and add an abundance of new tips, tools and techniques to your existing communications toolkit.

*Instructor: Anne Bruce, Author and Speaker*

**Conflict Solutions** Session Code: ED05-013

Did you know that there is a way to resolve conflict that goes beyond just a win/win mentality? It's called *win/win or nothing* and it involves finding the *third option* when it comes to resolving workplace conflict. In addition, you'll learn how to quickly recognize the red flags and characteristics of conflict on the job.

*Instructor: Anne Bruce, Author and Speaker*

**Authentic Coaching for Leaders** Session Code: ED05-014

To be a successful leader in today's world, a person must know how to coach, be able to recognize his or her own coaching style and use that style to its maximum effectiveness. Learn the eight primary styles of coaching and more!

*Instructor: Anne Bruce, Author and Speaker*

**A Day-in-the-Life of Real-World Management Scenarios and Toolkit** Session Code: ED05-015

In this session you'll get a take-away toolkit that you will refer to again and again. Featured in this module are the six most challenging and common workplace scenarios that leaders face. From dealing with peer-to-boss resentment to handling defensive attitudes, it's all here.

*Instructor: Anne Bruce, Author and Speaker*

**ELECTRICAL**

**Soares Grounding and Bonding** Session Code: ED05-016



This seminar is a must for those who wish to keep informed and increase their expertise in the grounding and bonding of electrical systems. Completely revised to the current edition of the *National Electrical Code* (NEC), it is based on the authoritative text *Soares Book on Grounding* and clearly explains the fundamentals and practice of grounding in an easily understood language. Dozens of new and revised color illustrations and photos of actual installations clarify and simplify the fundamental principles of grounding and bonding.

*Instructor: J. Philip Simmons*

**2003 IBC Special Inspectors Certification Renewal** Session Code: ED05-057



Designed as a certification renewal update for special inspectors that is tailored to the needs and interests of ICC's five special inspector certification categories: reinforced concrete, prestressed concrete, structural masonry, structural steel and welding and spray-applied fireproofing.

*Instructor: Gerald B. Neville, P.E., ICC*

**MISCELLANEOUS**

**Continued Use and Reuse of Existing Buildings** (½ day) Session Code: ED05-058

Addresses the relationship of the *International Building Code* (IBC) to existing buildings, as well as the use of the *International Existing Building Code*® (IEBC®). The initial portion of the discussion focuses on the fundamental requirements of Chapter 34 of the IBC that are placed on an existing structure that undergoes repair work, alteration or renovation activity, or the construction of a building addition, and the effect of a change in the building's occupancy classification. The "compliance alternatives" method of Section 3409 is also discussed. Basic information on the application of the IEBC is presented to acquaint participants with this new publication. Seminar is applicable to all aspects of the regulatory/design/construction community, including building officials, fire officials, design professionals, contractors, plans examiners and inspectors.

*Instructor: Brent Snyder*

**Tenant Improvement Aspects of Assembly, Business and Mercantile Occupancies** (½ day) Session Code: ED05-059

Identifies the many *International Building Code* (IBC) provisions applicable in the design and construction of tenant space improvements. The three most common types of uses — business, mercantile and assembly — are addressed. An emphasis is placed on the options available in the code for gaining compliance. The seminar is applicable to all aspects of the regulatory/design/construction community, including building officials, fire officials, design professionals, contractors, plans examiners and inspectors.

*Instructor: Brent Snyder*

**The Permit Counter — Skills and Strategies for the Front Line** Session Code: ED05-060



Covers the importance of counter staff as the public's first contact with a building department and how to provide the highest level of technical and customer service. Explores basic technical concepts, legal aspects of code enforcement and administrative practice. Utilizes a practical application approach through case studies and team exercises. Participants are required to provide their own code book.

*\*REQUIRED: 2003 International Building Code*

*Instructor: ICC Instructor*

**Wood-Frame Roof, Shear Diaphragms/Dimensional and Manufactured Wood Products** Session Code: ED05-061

Provides an understanding of the wood-framed structure as well as an understanding of material; product knowledge; marking and identification; sizing; spans and tables. This seminar will cover common engineering terminology and provisions regulating lateral force-resisting systems (shear and diaphragm) in accordance with the 2000 *International Building Code* (IBC). There will be a productive question-and-answer period.

*Instructor: Tom Buist, P.E. Wildan and Associates  
Wood Products Institute*

**Fire Code Requirements of the IBC** Session Code: ED05-062

Explains the requirements of the *International Fire Code*® (IFC®) as they relate to the design and construction features of a building and its site. Focus is provided on those fire code provisions that are commonly encountered by building department personnel. The seminar content is fundamental in nature and not designed for individuals in the fire service or those having a comprehensive understanding of the IFC. The seminar is applicable to design professionals, building officials, plans examiners and inspectors. Major topics include: fire apparatus access roads and fire lanes; fire hydrant locations; spray finishing operations; lumber yards and woodworking facilities; repair garages; motor fuel-dispensing facilities; high-piled combustible storage; tents and other membrane structures; explosives and fireworks; and flammable and combustible liquids.

*Instructor: Brent Snyder*

**FEMA ATC20, Disaster Mitigation** Session Code: ED05-063

ATC20 post earthquake or other catastrophic disaster building damage inspection, posting and reporting training will be covered. Class allows building evaluation personnel to quickly identify structures that are safe for reentry and those that must be avoided. Class provides training, evaluation and reporting formwork and posting sign criteria for inspection personnel.

*Instructor: Federal Emergency Management Agency*

### Slope Stability and Landslides Session Code: ED05-049

Topics covered include acceptable standard practices for the design and construction of earth slopes based on both current research and historically valid methods; methods to determine the maximum stable conditions using technical analysis for various types of soil and rock; slope stabilization using terracing, key and benching, subdrains, geofabric, mechanically stabilized earth, soil nailing and other methods in current practice.

**Instructor: Moses Karakouzian, Ph.D.**

### Residential and Commercial Design of Light-Gauge Steel Structures Session Code: ED05-050

Overview of the *Cold-Formed Steel Design Manual*, 1996 edition from the American Iron and Steel Institute (AISI). Topics include dimensions and properties of cold-formed steel (CFS) framing members, floor, wall and roof systems, connections, ANSI specifications, supplementary information, test procedures and *International Building Code* (IBC) requirements of CFS construction.

**Instructor: Nader Elahji, P.E.**

### Fundamentals of Tilt-Up Design and Construction Session Code: ED05-051

Introduction to tilt-up; planning the tilt-up building; design basics, panel design for erection and service loads, using panels as lateral force-resisting systems, lifting, setting and bracing the panels; and connections.

**Instructor: David Tomasula, P.E.**

### Fundamentals of Post-Tensioning Design, Analysis and Construction (1/2 day) Session Code: ED05-052

Analysis, design and construction fundamentals will be discussed with an emphasis on post-tensioned buildings. The course will present post-tensioning technology (materials, fabrication and installation procedures); analysis and design (load balancing, secondary moments, prestress losses, example problem and code requirements), applications (tendon layout and retrofit); and construction and installation procedures.

**Instructor: Post-Tensioning Institute (PTI)**

### Fundamentals of Post-Tensioned Foundations (1/2 day) Session Code: ED05-053

Explains the fundamentals of post-tensioned concrete foundations used in residential construction. Topics include basic interpretation of the soils report, selection of a foundation design, coordination of the design team, construction procedures, homeowner maintenance, repairs and modifications. All participants will receive a copy of PTI's *Construction and Maintenance Procedures Manual for Post-Tensioned Slab-On-Ground Construction* along with other PTI publications.

**Instructor: Post-Tensioning Institute (PTI)**

## STRUCTURAL INSPECTION

### Complete Plan Reading Class Session Code: ED05-054

Introduces the basics of structural plan reading. This hands-on workshop will focus on reinforced concrete, structural masonry and structural steel/welding blueprint reading. The course will be broken down into fundamentals, reinforced concrete plans, structural masonry plans and structural steel/welding plans. Upon completion the attendee should have a basic comprehension of alphabet of lines; symbols and notations; basic views; details and sections; dimensioning; schedules and structural plans.

**Instructor: William FitzJohn, CITR**

### Prestressed Concrete Inspection Session Code: ED05-055

Covers the construction and inspection requirements of the *International Building Code* (IBC) for pretensioned, prestressed (plant-produced products) and post-tensioned structures. Since this seminar provides fundamental training in the special field of prestressed concrete, attendees are encouraged to have a working knowledge of the basics of general concrete technology.

**Instructor: Gerald B. Neville, P.E.**

### 2003 IBC Masonry Field Practices and Quality Session Code: ED05-056

Addresses the fundamentals of quality reinforced structural masonry construction and materials. Special inspectors, contractors and those interested in materials of masonry (concrete, clay) quality and waterproofing field control; testing; mortar and grout; masonry units; reinforcing details for masonry; tolerances; movement joints, should attend.

**Instructor: James E. Amrhein, ICC**



### Electrical Requirements for Health Care Facilities, NEC Article 517 Session Code: ED05-017



Requirements for electrical installations in health care facilities are covered in this seminar. It is primarily based on the provisions set forth in the *National Electrical Code* (NEC) (current edition). This material has been developed in the interest of promoting greater understanding and increasing electrical safety for systems in health care facilities. This presentation will establish a thorough understanding of the technical and code requirements contained in NEC 517. Introductory information is provided about the basic requirements and structure of the NFPA 99, *Standard for Health Care Facilities* and the history of how Article 517 evolved in the NEC. This seminar, which is conveyed in an easily understood language, is a must for those who wish to keep informed and increase their expertise in the specific requirements involved in the health care environment.

**Instructor: J. Philip Simmons**

### Hazardous (Classified) Locations Session Code: ED05-018



This IAEI seminar covers the requirements for electrical installations in hazardous (classified) locations. It is primarily based on the provisions set forth in the *National Electrical Code* (NEC) (current edition). The material has been developed in the interest of promoting greater understanding and increasing electrical safety for systems in hazardous (classified) locations. This material is ideal for self-study and is also an excellent multimedia program for public presentations and forums. Fundamentals and critical requirements for electrical wiring in hazardous (classified) locations are explained in an easily understood language. Hundreds of new and revised color illustrations and photos exemplify the proper use and application of the electrical requirements in these locations.

**Instructor: J. Philip Simmons**

### One- and Two-Family Dwelling Electrical Systems Session Code: ED05-019



Explains installation, design and inspection of electrical systems in new and existing one- and two-family dwellings in clear, concise language, with numerous pictures and graphics. This seminar is based on IAEI's book entitled *One- and Two-Family Dwelling Electrical Systems*, 5th edition, that includes the electrical requirements of both the *National Electrical Code* (NEC) and the *International Residential Code*® (IRC®). This presentation is particularly helpful and valuable for inspectors, contractors, electricians and students in making more accurate, thorough and safer installations and inspections.

**Instructor: Lanny McMahill**

### Swimming Pools and Similar Installations, NEC 680 (1/2 day) Session Code: ED05-020



In order for one to properly install the appropriate wiring methods or to inspect a swimming pool or similar installation, one must be familiar with and understand NEC 680. Article 680 is divided into several parts covering such things as a permanently installed swimming pool; a storable swimming pool; spas and hot tubs; fountains; and hydro massage bathtubs, to name a few. All of these installations have specific requirements. This seminar takes an in-depth look at these explicit requirements for the combination of water and electricity. Some of the topics covered will include such things as wiring methods; grounding and bonding; lighting and receptacle locations; motors; and GFCI requirements. This information is a must for installers and inspectors alike who desire a safe environment in and around these wet locations where the combination of water, electricity and personnel demand a hazard-free experience.

**Instructor: Lanny McMahill**

### Requirements for Electrical Services (1/2 day) Session Code: ED05-021



Provides information about installation and inspection of electrical services. The program provides an overview of the major design issues and minimum code requirements related to services. The program includes topics such as number of services; service disconnecting means locations; requirements for service equipment; equipment ratings; and grounding and bonding of electrical services. This material is primarily based on the requirements set forth in Article 230 of the *National Electrical Code* (NEC).

**Instructor: Lanny McMahill**

## FIRE CODE APPLICATION

### Application of Flammable Finishes, Article 45 of the Uniform Fire Code (UFC) Session Code: ED05-022

A one-day class that covers the general provisions of Article 45 of the 2000 UFC for the application of flammable finishes, including spray finishing, dip tanks, electrostatic apparatus, powder coating, flow coating and dual component coating.

**\*REQUIRED: Uniform Fire Code, 2000 Edition**

**Instructor: Doug Hall**

**Hazardous Materials, Article 80 of the Uniform Fire Code (UFC) Session Code: ED05-023**

Covers the basic provisions of the hazardous materials regulations found in Article 80 of the 2000 UFC. The student will gain a working knowledge of the code approach to regulating hazardous materials. After completing the course, students will have a firm understanding of the code requirements for hazardous materials, including a thorough knowledge of code format layout. In addition, students will learn methods of handling new project proposals and dealing with retroactive application of the provisions.

**\*REQUIRED: Uniform Fire Code, 2000 Edition  
Instructor: Doug Hall**

**Flammable Combustible Liquids, Article 79 of the Uniform Fire Code (UFC) Session Code: ED05-024**

Provides code enforcement, design and construction professionals with a working knowledge of Article 79 and related UFC requirements. Background and interpretation of many related code provisions are also discussed. The course includes an analysis of the general storage, use and handling regulations, and special uses of flammable and combustible liquids. Exercises in application of the code requirements are emphasized to reinforce learned skills. Upon completion of the course, students will have an understanding of the numerous and complex flammable and combustible liquid provisions in the 2000 UFC.

**\*REQUIRED: Uniform Fire Code, 2000 Edition  
Instructor: Doug Hall**

**High-Piled Combustible Storage (Geared Towards Inspections) Session Code: ED05-025**

Explains the general provisions of Article 81 of the 2000 *Uniform Fire Code* (UFC) for the safe storage and handling of high-piled combustible storage. The course will describe the types of high-piled combustible storage, the classification of commodities and the requirements and options available for the protection of various storage arrangements. The student will achieve an understanding of the intent and basis for the requirements in Article 81. The course utilizes practical examples and exhibits for the proper code application.

**\*REQUIRED: Uniform Fire Code, 2000 Edition & NFPA 13, 2002 Edition  
Instructor: Joe Noble**

**Kitchen Hoods and Extinguishing Systems (1/2 day) Session Code: ED05-026**

Covers the general provisions of NFPA 17A, 2002 edition, and the UL 300. Students will learn system plan review procedures, including determining the type of hazard and general hood system design parameters. In addition to standard hood fire suppressions systems, Gaylord and Piranha water spray systems will be discussed. Field verification, inspection, testing and maintenance of hood systems will be reviewed.

**\*REQUIRED: NFPA 17A 2002 Edition and literature provided by Instructor  
Instructor: Mark Silverman**

**The Complete Door Opening, a Guide to Exiting and Exit Hardware (1/2 day) Session Code: ED05-027**

Explains the general provisions of NFPA 80, the *International Building Code* (IBC) and NFPA 101 and other applicable codes on doors and exit hardware. The class addresses problems and includes code compliant solutions to exiting issues and door hardware, including security hardware, electronic access and egress control. Review of fire-rated openings and rated assemblies will also be addressed. \* This class is AIA accredited, earning architects four AIA credits.

**\*REQUIRED: Current Editions of NFPA 80, IBC and NFPA 101 will be useful  
Instructor: Dennis Stangeland**

**FIRE PROTECTION #1**

**NFPA 72, Fire Alarms Session Code: ED05-028**

Covers the general provisions of NFPA 72, *The National Fire Alarm Code*, 2002 edition, to include the fundamentals of fire alarm systems, initiating devices, notification appliances, and the inspection, testing and maintenance of alarm systems.

**\*REQUIRED: NFPA 72, 2002 edition  
Instructor: Stephen DiGiovanni**

**NFPA 14, Standards for the Installation of Standpipes and Hose Systems (1/2 day) Session Code: ED05-029**

Reviews the general provisions of NFPA 14, 2003 edition, to include the fundamentals of standpipe and hose systems; system components and hardware; classes of standpipe systems; design of systems; and system acceptance testing.

**\*REQUIRED: NFPA 14, 2003 edition  
Instructor: Donald Donath, National Fire Sprinkler Association Staff Instructor**

**PLUMBING AND MECHANICAL**

**2003 Uniform Plumbing Code Inspection Practices Session Code: ED05-042**

**Class held off-site**



Provides a comprehensive analysis of the changes and updates in the 2003 Uniform Plumbing Code (UPC). This seminar is designed to provide the code official, inspector, plan reviewer, contractor, journeyman or estimator a fundamental knowledge of the requirements of the UPC. This seminar will give you confidence you need to obtain your certification or to discuss the code with other professionals. A question-and-answer period will follow.

**Instructor: Phil Campbell, IAPMO**

**2003 Uniform Plumbing Code Updates and Code Applications Session Code: ED05-043**

**Class held off-site**



Provides a comprehensive analysis of the changes and updates in the 2003 *Uniform Plumbing Code* (UPC). This seminar is designed to provide the code official, inspector, plan reviewer, contractor, journeyman or estimator a fundamental knowledge of the requirements of the UPC. This seminar will further assist you with code location; description and administration application; general regulations; fixtures; fittings; water heaters; water supply; drainage; vents; traps; interceptors and more. A question-and-answer forum will complete this seminar.

**Instructor: Phil Campbell, IAPMO**

**2003 Uniform Mechanical Code Inspection Practices Session Code: ED05-044**



Provides a comprehensive analysis of the changes and updates in the 2003 *Uniform Mechanical Code* (UMC). This one-day class is designed to provide the code official, inspector, plan reviewer, contractor, trainee, journeyman, fitter or estimator a fundamental knowledge of UMC requirements. This seminar will assist you in locating, understanding and applying the general provisions of ventilation, exhaust systems, chimneys, vents, refrigeration and more. A general-question-and answer forum will complete this seminar.

**Instructor: Tim Collings, IAPMO**

**2000 Uniform Mechanical Overview: Chapters 5, 6, 7, 9 and 11 Session Code: ED05-045**



Provides an overview on how the code applies to these important chapters. This one-day class is designed to provide the code official, plan reviewer, contractor, trainee, journeyman or estimator with the requirements of the UMC. There are many life safety concerns with grease hoods, exhaust systems and refrigeration machinery rooms. This seminar will assist in understanding the importance of sizing, installing and inspecting these systems. A question-and-answer forum will complete this seminar.

**Instructor: Tim Collings, IAPMO**

**Effective Use of the 2003 International Plumbing Code (1/2 day) Session Code: ED05-046**

Addresses the provisions of the *International Plumbing Code*® (IPC®) as they relate to plan review, inspection, installation and approval. An emphasis is placed on those code areas where the most common errors occur. The seminar content is appropriate for all residential and light commercial installations. The seminar is applicable to building owners, facilities managers, building officials, contractors, plans examiners and inspectors. Major topics include general regulations; fixtures and fixtures fittings; water heaters; water supply and distribution; sanitary; indirect and special waste; vents interceptors and separators; and storm drainage.

**Instructor: Brent Snyder**

**Effective Use of the 2003 International Mechanical Code (1/2 day) Session Code: ED05-047**

Addresses the requirements of the *International Mechanical Code*® (IMC®) as they relate to the functions of plan review, inspection, installation and approval. Focus is provided on those code provisions where the majority of errors occur. The seminar content is appropriate for all residential and light commercial installations. The seminar is applicable to building owners, facilities managers, building officials, contractors, plans examiners and inspectors. Major topics include: general regulations; ventilation; exhaust systems; duct systems; combustion air; chimneys and vents; and specific appliances.

**Instructor: Brent Snyder**

**STRUCTURAL DESIGN**

**2003 IBC Load Path and Continuity in Engineered Wood-Framed Buildings Session Code: ED05-048**



Lateral-force-resisting systems in wood-frame buildings require a continuous load path from the roof to the foundation. This course follows the load path and corresponding force-resisting systems. Included are descriptions of shear transfer details, examples of incomplete versus complete systems, student problems, and *International Building Code* (IBC) connection and detail requirements.

**Instructor: John Henry, P.E., ICC**

*Continued on next page*

## Fire Protection in Health Care Facilities (cont'd)

Strategies commonly found in existing prescriptive codes will be discussed as they relate to the defend-in-place philosophy. Specific code provisions related to the defend in place concept will be discussed using the *International Building Code (IBC)* and *NFPA Life Safety Code*, NFPA 101, as a basis for the prescriptive requirements.

*Instructor: William Koffel*

## Overview of Smoke Management Systems Session Code: ED05-036

Intended for engineers and design professionals who design smoke management systems, as well as plans examiners and code enforcement officials who review and approve building's life safety and smoke management systems. The seminar will cover five subject areas: (1) fundamentals: composition of smoke, forces that affect smoke movement; (2) stairwell pressurization systems: design criteria, design aspects, review considerations, activation; (3) zoned smoke control systems: design criteria, design aspects, review considerations, activation; (4) smoke management in atria and covered malls, design criteria, design aspects, review considerations, activation; and (5) acceptance tests for smoke management systems.

*Instructor: James Milke, Ph.D., P.E.*

## INSPECTION

### IRC for Inspection Staff Session Code: ED05-037



Explores the major provisions of the 2003 *International Residential Code (IRC)*. The presentation includes discussions relating to inspections of one- and two-family dwellings and townhouses. The session will concentrate on the following issues: building planning; foundation, floor, wall and roof construction; exterior wall finishes; and roofing systems. The class is designed to provide an introduction to the provisions of the code.

*Instructor: Tom G Meyers, Colorado Code Consulting*

### Building Inspection Fundamentals Session Code: ED05-038

Provides training on the fundamentals of inspection as related to residential and light commercial structures. Provisions from both the *International Building Code (IBC)* and the *International Residential Code (IRC)* will be presented; however, this seminar involves discussion on the actual day-to-day activities of all inspectors. Topics include preparing for inspections while still in the office; office operators; site plans and soils; footings; foundations and slabs; wood framing; exterior envelope; and final inspection.

*Instructor: Brent Snyder*

### Overview of the IRC Session Code: ED05-039



Explores the major provisions of the 2003 *International Residential Code (IRC)*. The presentation includes detailed discussions of the provisions addressing the following issues: building planning; foundation, floor, wall and roof construction; exterior wall finishes; and roofing systems. The class is designed to provide an introduction to the provisions of the code.

*Instructor: Stephen L. Thomas, Colorado Code Consulting*

### Combination Inspection of Small Commercial Structures Session Code: ED05-040



Provides new commercial inspectors with basic techniques and an understanding of conducting inspections of small commercial buildings. The discussion will include preparation, presentation and inspections of the building, plumbing, mechanical and electrical portions of a building.

*Instructor: Stephen L. Thomas, Colorado Code Consulting*

### Overview of the IBC Session Code: ED05-041



Explores the major provisions of the 2003 *International Building Code (IBC)*. The presentation will include discussions of the provisions addressing the following issues: occupancy classification; types of construction; means of egress; fire sprinklers and fire-resistance-rated construction; administrative provisions and accessibility. This class is designed to provide an introduction to the new provisions of the code.

*Instructor: Stephen L. Thomas, Colorado Code Consulting*

### NFPA 13, 13R, 13D Sprinkler Systems Update 2002 Session Code: ED05-064

Provides attendees with the understanding of changes made to the NFPA 13, 13R, 13D sprinkler standards in the 2002 edition.

*\*REQUIRED: NFPA 13, 13R, 13D 2002 edition*

*Instructor: Donald Donath, National Fire Sprinkler Association Staff Instructor*

### NFPA 13, Plan Review and Inspection of Sprinkler Systems Session Code: ED05-030

Provides students with vital information on determining compliance with fire sprinkler design and installation rules in NFPA 13, 2002 edition. An example of topics covered will include hazard and commodity classification; sprinkler system components; system types; sprinkler spacing and location; sprinkler obstruction; water supplies; design criteria during plan review; understanding the hydraulic sheet and acceptance testing. To take full advantage of this course, students must attend both days.

*\*REQUIRED: NFPA 13, 2002 edition*

*Instructor: Donald Donath, National Fire Sprinkler Association Staff Instructor*

### Special Fire Sprinkler Systems Session Code: ED05-031

Provides a general overview of the various types of fire sprinkler heads for special applications. Examples of sprinkler heads will be ESFR systems for warehouses and freezers. The student will learn the proper applications and related code requirements for dry fire sprinkler systems, preaction systems, preaction fail-safe systems and cycling sprinkler systems.

*\*REQUIRED TEXT: Provided by Instructor*

*Instructor: Gregg Vlahakis*

## FIRE PROTECTION #2

### Stationary Fire Pumps Session Code: ED05-032

Focuses on the types of fire pumps used in building fire protection. It is designed to cover the principles of pump operation, drivers for fire pumps and the controllers used in fire pump installations. Proper sizing of fire pumps is also discussed, as are mechanical piping requirements. Fire pump electrical power and fuel arrangements are examined, and fire pump performance, maintenance, testing and inspection are topics in this program. This program is designed for those people that have fire pump installations on their property, or those who deal with fire pumps routinely. Code requirements will also be a topic of discussion in this seminar. There will be some activities that will be used to reinforce some of the concepts of the seminar.

*Instructor: Lawrence Wenzel, P.E.*

### Introduction to Fire Modeling Session Code: ED05-033



Explore the unique qualities and capabilities of three types of models which include network, zone fire and computational fluid dynamic (CFD) models. These models are applied to a wide variety of fire protection applications, including smoke control; smoke and fire detection; and fire reconstruction. Information about specific models and availability is provided. A video is presented on computer modeled smoke movement.

*Instructor: John Klote, International Code Council*

### Performance-Based Design and the Codes Session Code: ED05-034



Reviews in detail the performance-based design process and its application with the *ICC Performance Code™ for Buildings and Facilities (ICC PC™)* and the performance options in the *NFPA Life Safety Code®* and the *NFPA Building Code®*. Seminar is divided into three sections. The first section will provide an overview of the performance-based design process contained in the *SFPE Engineering Guide to Performance-Based Fire Protection Analysis and Design of Buildings*. The second section will provide an overview of the ICC PC, including a detailed synopsis of the fire protection requirements contained in the code. The third section will outline the use of the *NFPA Building Code* and the *NFPA Life Safety Code* for performance-based fire protection design. The fire protection performance-based requirements of both codes will be identified and illustrated using an example applicable to a building.

*Instructor: Cindy Gier, P.E.*

### Fire Protection in Health Care Facilities Session Code: ED05-035

Recent fire experience along with historical fire experience in health care occupancies will be reviewed to identify the factors that resulted in either a tragedy or a fire that did not result in a substantial loss of life. The seminar will then review computer fire modeling and subsequent full scale fire tests that were used to evaluate the effectiveness of automatic sprinkler systems and smoke detection systems to improve the level of life safety in health care occupancies. The concept of defending patients in place instead of mass evacuation will be discussed.

*Continued on page 10*

Track	Monday February 7	Tuesday February 8	Wednesday February 9	Thursday February 10	Friday February 11
Architectural	Multi-Family Construction and the IBC Session Code: ED05-001	IBC Accessibility Requirements Session Code: ED05-002	Building Areas, Fire Areas and Mixed Occupancies Session Code: ED05-003	Advanced Means of Egress Components Session Code: ED05-004	Advanced Means of Egress Design Session Code: ED05-005
Code Enforcement	P.A.C.E. Pro-Active Code Enforcement Session Code: ED05-006	Properly Documenting and Enforcing the Codes through Photography Session Code: ED05-007	Legal Aspects of Code Administration Session Code: ED05-008	Understanding the 2003 IPMC Session Code: ED05-009	Certification Test Preparation Session Code: ED05-010
Leadership Essentials	Motivating Manager: Building a High Morale Workplace Session Code: ED05-011	Communications Excellence for Managers Session Code: ED05-012	Conflict Solutions Session Code: ED05-013	Authentic Coaching for Leaders Session Code: ED05-014	A Day-in-the-Life of Real-World Management Scenarios and Toolkit Session Code: ED05-015
Electrical	Sores Grounding and Bonding Session Code: ED05-016	Electrical Requirements for Health Care Facilities, NEC Article 517 Session Code: ED05-017	Hazardous (Classified) Locations Session Code: ED05-018	One- and Two-Family Dwelling Electrical Systems Session Code: ED05-019	Swimming Pools and Similar Installations, NEC 680 (½ day) Session Code: ED05-020
Fire Code Application	Application of Flammable Finishes, Article 45 of the Uniform Fire Code Session Code: ED05-022	Hazardous Materials Article 80 of the Uniform Fire Code Session Code: ED05-023	Flammable Combustible Liquids Article 79 of the Uniform Fire Code Session Code: ED05-024	High-Piled Storage Session Code: ED05-025	Kitchen Hoods and Extinguishing Systems (½ day) Session Code: ED05-026
Fire Protection #1	NFPA 72, Fire Alarms Session Code: ED05-028	NFPA 14, Standards for the Installation of Standpipes and Hose Systems (½ day) Session Code: ED05-029	NFPA 13, Plan Review and Inspection of Sprinkler Systems (Day 1 of 2) Session Code: ED05-030	NFPA 13, Plan Review and Inspection of Sprinkler Systems (Day 2 of 2) Session Code: ED05-030	The Complete Door Opening, a Guide to Exiting and Exit Hardware (½ day) Session Code: ED05-027
Fire Protection #2	Stationary Fire Pumps Session Code: ED05-032	Introduction to Fire Modeling Session Code: ED05-033	Performance-Based Design and the Codes Session Code: ED05-034	Fire Protection in Health Care Facilities Session Code: ED05-035	Special Fire Sprinkler Systems Session Code: ED05-031

Inspection	IRC for Inspection Staff Session Code: ED05-037	Building Inspection Fundamentals Session Code: ED05-038	Overview of the IRC Session Code: ED05-039	Combination Inspection of Small Commercial Structures Session Code: ED05-040	Overview of the IBC Session Code: ED05-041
Plumbing & Mechanical	2003 Uniform Plumbing Code Inspection Practices Session Code: ED05-042	2003 Uniform Plumbing Code Updates and Code Applications Session Code: ED05-043	2003 Uniform Mechanical Code Inspection Practices Session Code: ED05-044	2003 Uniform Mechanical Code Overview: Chapters 5, 6, 7, 9 and 11 Session Code: ED05-045	Effective Use of the 2003 IPC (½ day) Session Code: ED05-046
Structural & Geotechnical Design	2003 IBC Load Path and Continuity in Engineered Wood-Framed Buildings Session Code: ED05-048	Slope Stability and Landslides Session Code: ED05-049	Residential and Commercial Design of Light Gauge Steel Structures Session Code: ED05-050	Fundamentals of Tilt-Up Design and Construction Session Code: ED05-051	Effective Use of the 2003 IMC (½ day) Session Code: ED05-047
Structural Inspection	Complete Plan Reading Class (Day 1 of 2) Session Code: ED05-054	Complete Plan Reading Class (Day 2 of 2) Session Code: ED05-054	Prestressed Concrete Inspection Session Code: ED05-055	2003 IBC Masonry Quality and Field Practices Session Code: ED05-056	Fundamentals of Post-Tensioning Design, Analysis and Construction (½ day) Session Code: ED05-052
Miscellaneous	Continued Use and Reuse of Existing Buildings (½ day) Session Code: ED05-058	The Permit Counter — Skills and Strategies for the Front Line Session Code: ED05-060	Wood-Frame Roof, Shear Diaphragms/Dimensional and Manufactured Wood Products Session Code: ED05-061	Fire Code Requirements of the IBC Session Code: ED05-062	Fundamentals of Post-Tensioned Foundations (½ day) Session Code: ED05-053
Trade Show		Trade Show Today! Party Tonight!			2003 IBC Special Inspector Certification Renewal Session Code: ED05-057
ICC & IAPMO Bookstore	Bookstore	Bookstore	Bookstore	Bookstore	Bookstore
					FEMA ATC20, Disaster Mitigation Session Code: ED05-063

