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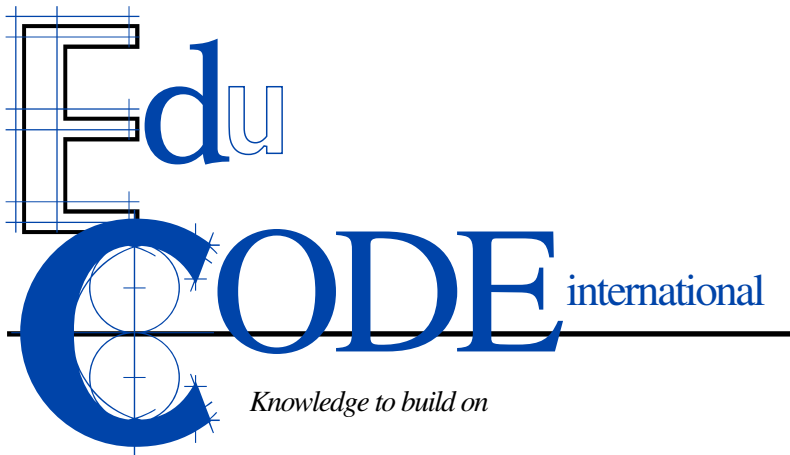
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Welcome!

Dear Colleague:

The 2006 EduCode Conference promises to be another exciting event. Prepare to meet over 700 attendees, rub shoulders with the industry's top teachers and presenters, share war stories with other students and learn. Only at EduCode can you find architectural, plumbing, mechanical, electrical, structural, fire protection, special inspection, code enforcement and leadership tracks.

EduCode offers you the highly specialized courses you need as a working professional who wants to expand his or her skills, earn certifications, recertifications, CEUs and be ahead of our rapidly changing construction industry. This is the accelerated learning conference for building inspectors, plan reviewers, building officials, fire officials and the building industry. This is EduCode 2006.

The conference will also feature a bookstore, tradeshow and other activities. If you are the type that likes to look before you buy, you will enjoy the variety of products available for purchase at the bookstore. Other activities include a hosted buffet lunch each day at the hotel's 10-station action buffet. Pick up a cup of coffee each morning before it all starts, as well as at the morning and afternoon breaks, and enjoy the annual Mardi Gras party in Brendan's Irish Pub.

Come join us.

A handwritten signature in black ink, appearing to read "Lee Guyette".

Lee Guyette, Chair  
EduCode 2006

*Register now for EduCode International and participate in a lasting educational experience.  
Visit [www.educode.us](http://www.educode.us) for the most up-to-date information.*



## 2006 EduCode Session Descriptions

### 2003 IBC Day Care and Assisted Living Facilities Session Code: 01ED06O (Thursday)



Provides a better understanding of the code requirements for the increasing number of day care and assisted living center occupancies that are being built, along with the attendant fire and accessibility requirements.

**Instructor: ICC Provided Instructor**

### 2003 IBC Hazardous Materials Session Code: 02ED06O (Wednesday)



Describes and applies the code requirements in the 2003 *International Building Code*® (IBC®) (specifically Chapters 3 and 4) and the 2003 *International Fire Code*® (IFC®) to determine compliance for hazardous materials.

**REQUIRED: 2003 International Building Code  
Instructor: ICC Provided Instructor**

### 2003 IBC Wood Design ASD Session Code: 03ED06O (Monday)



Overview of the various elements of wood design. The allowable stress design method for wood is presented with specific reference to the 2003 IBC and the National Design Standard (NDS).

**Instructor: ICC Provided Instructor**

### 2003 IFC Fire Protection Systems Session Code: 04ED06O (Monday)



Guides participants through the 2003 IFC requirements related to fire protection systems. Requirements include automatic sprinkler systems, alternative automatic fire-extinguishing systems, standpipe systems, fire alarm and detection systems and smoke control systems.

**REQUIRED: 2003 International Building Code, calculator  
Instructor: ICC Provided Instructor**

### 2003 IFC Fundamentals Session Code: 05ED06O (Tuesday)



Assists fire inspectors, code officials, design professionals and building inspectors to enforce and apply the key requirements of the 2003 IFC. The seminar covers administrative and general precautions, building and equipment processes and occupancies and hazardous materials provisions of the 2003 IFC. It is recommended that participants bring a copy of the 2003 *International Fire Code*.

**REQUIRED: 2003 International Building Code, calculator  
Instructor: ICC Provided Instructor**

### 2006 IBC Update (½ day) Session Code: 06ED06H (Thursday) 07ED06H (Friday)



Provides an overview of the key changes from the 2003 to the 2006 IBC, including change in organization and code requirements. The applicability of these requirements to design, plan review and inspection are identified. Upon completion, participants will be better able to identify the most significant changes between the 2003 and the 2006 IBC, classify illustrations as compliant or non-compliant in terms of 2006 IBC requirements and use the 2006 IBC to answer questions regarding new code requirements.

**Instructor: ICC Provided Instructor**

### 2006 IRC Update (½ day) Session Code: 08ED06H (Thursday) 09ED06H (Friday)



Provides an overview of the changes from the 2003 to the 2006 *International Residential Code*® (IRC®) including changes in organization and code requirements. The applicability of these requirements to design, plan review and inspection are identified. Upon completion, participants will be better able to: identify the most significant differences between the 2003 and the 2006 IRC, locate sections containing differences in the 2006 IRC, classify illustrations as compliant or noncompliant in terms of the 2006 IRC requirements and use the 2006 IRC to answer questions regarding any new code requirements.

**Instructors: ICC Provided Instructor**

**Advanced Inspection Practices for the Uniform Mechanical Code™ (UMC™)** Session Code: 10ED06O (Thursday)



Evaluates and identifies violations in the code and develops solutions based on actual code requirements. This workshop benefits the code official, inspector, plan reviewer, contractor, journeyman, estimator or designer.

*Instructor: Tim Collings*

**Advanced Inspection Practices for the Uniform Plumbing Code™ (UPC™)** Session Code: 11ED06O (Tuesday)



Focuses on evaluating and identifying violations in the code and developing solutions based on actual code requirements. This workshop benefits the code official, inspector, plan reviewer, contractor, journeyman, estimator or designer.

*Instructor: Phil Campbell*

**Advanced Means of Egress Components** Session Code: 12ED06O (Thursday)

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 UBC and IBC will be pursued.

**REQUIRED: 2003 International Building Code, calculator**

*Instructor: Gregory R. Keith*

**Advanced Means of Egress Design** Session Code: 13ED06O (Friday)

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 UBC and IBC will be highlighted.

**REQUIRED: 2003 International Building Code, calculator**

*Instructor: Gregory R. Keith*

**Advanced Occupancy** Session Code: 14ED06O (Monday)

This presentation is geared toward plans examiners and architects and will discuss the provisions contained in Chapters 3-5 of the 2003 IBC. Technical requirements relating to the proper classification of occupancies, allowable area, height determination and mixed occupancies will be stressed.

**REQUIRED: 2003 International Building Code, calculator**

*Instructor: Gregory R. Keith*

**Advanced Schematic Design** Session Code: 15ED06O (Tuesday)

This graduate-level workshop discusses the occupancies contained in Chapter 3 of the 2003 IBC. Methods relating to the proper classification of occupancies will be covered. Differences between UBC and IBC occupancy categories will be emphasized.

**REQUIRED: 2003 International Building Code, calculator**

*Instructor: Gregory R. Keith*

**Advanced Types of Construction** Session Code: 16ED06O (Wednesday)

Explains the types of construction requirements contained in Chapters 4, 6 and 7 of the 2003 IBC. Fire-resistant material requirements will be emphasized. Techniques on how to select the proper type of construction and identify the types of construction on existing buildings will be discussed.

**REQUIRED: 2003 International Building Code, calculator**

*Instructor: Gregory R. Keith*

**Alternative Materials for Residential/Commercial Projects** Session Code: 17ED06O (Thursday)



Reviews the use of ICC evaluation reports when using the IBC. Specific materials discussed will be I-joists, wood trusses, exterior insulated finish systems (EIFS), synthetic stucco systems, structural insulated panel systems (SIPS) and insulated concrete forms (ICF) systems.

*Instructor: Tom Meyers*

**Amusement Ride Inspections** Session Code: 18ED06V (full week)

This week-long program includes information on **Basic Ride Inspections** (Monday) with an introduction to amusement ride inspections, electrical systems inspections, hydraulics, pneumatics, standards and nondestructive testing; **Dynamic Ride Inspection** (Tuesday) discusses acceptance test procedures for new rides, go-kart inspections, circular rides, advanced amusement ride inspections, roller coaster inspection and dynamic ride testing; **Hands-on training** (Wednesday) features the inspection of eight rides, incident investigation, ride fasteners, inspection tools and the emergency response kit; **Facility inspection** (Thursday) highlights incident investigation summary, theme park/midway inspection, ride installation, structural inspection, water park safety, advanced electrical systems/controls and amusement facility fires; **Certification** (Friday) program wraps up with lockout/tagout, amusement ride signage, high-strength bolting, wire rope inspection, transportation rides and NAARSO testing.

**Instructors: Industry Instructors, NAARSO Instructors**

**Been there. Done that. Now What? Advanced Supervisory Skill Builder** Session Code: 19ED06O (Tuesday)

Covers the following topics: Become a Change Master; Performance Objectives that Win for Leaders Who've Been There and Done That; A Powerful Performance Analysis Toolkit; Indispensable Communications Tools for the Worker Who's Seen It All; The Critical Importance of Loyalty, Decision Making, and Emotional Intelligence; Minding the Gap: Closing Gaps Between Performance Problems and Optimum Productivity; 21st Century Strategic Planning Exercise; When Workplace Problems Become Your Greatest Strengths; and What Goes Around, Comes Around.

*Instructor: Anne Bruce*

**Building Areas, Fire Areas and Mixed Occupancies** Session Code: 20ED06O (Friday)

Provides a comprehensive discussion of the major compartmentation concepts of the IBC, focusing on those requirements that deal with building size, sprinkler options and mixed-use buildings. The 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; Separated and nonseparated uses.

*Instructor: Tom Meyers*

**Combination Inspections of Small Commercial Structures** Session Code: 21ED06O (Monday)



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

*Instructor: Steve Thomas*

**Commercial Electrical Workshop, Based on the Current NEC** Session Code: 22ED06O (Wednesday)



Knowledge of the *National Electrical Code*® (NEC®) is one of the most valuable tools anyone who makes his or her living in the electrical industry can possess. This workshop is a must for installers and inspectors alike or for anyone who needs to enhance his or her general understanding of code rules and how to apply these rules in everyday situations. Based on the current NEC, this interactive workshop will explain, in clear, concise language, code structure involving installation, design and inspections of electrical systems. Examples of application of the NEC rules to installations and systems will be presented as well as major checklists for inspectors and installers.

*Instructors: Michael J. Johnston, Rick Maddox*

**Commercial Plan Review of Plumbing, Mechanical and Electrical** Session Code: 23ED06O (Thursday)



Explains the process of conducting a plan review for small/medium-sized commercial projects. It will cover the building, plumbing, mechanical and electrical requirements for commercial projects. The class will provide students with formats, processes and understanding on how to conduct a commercial review.

*Instructor: Steve Thomas*

**Communication Strategies for Public Officials** Session Code: 24ED06H (Thursday)



Code enforcement professionals are often viewed as bearers of bad news by citizens who do not appreciate the “infringement” on their freedom to do as they please. These citizens often express their frustration and anger when approached by code enforcement officers. Methods for defusing anger and handling these situations one on one or in formal groups will be presented at this session. This session covers the basic components of communication and provides tips on how to successfully maintain control of conversations. Learn how to “read” the citizens you serve and sharpen your listening skills so you can avoid the misunderstandings that often lead to conflict.

*Instructor: David Park*

**Comprehensive Analysis and Changes in the 2006 Uniform Mechanical Code™ (UMC®)** Session Code: 25ED06O (Wednesday)



Provides a comprehensive analysis of the changes and updates in the 2006 *Uniform Mechanical Code*. This seminar is designed to provide a fundamental knowledge of the requirements of the UMC. Specifically, important code changes will be reviewed. This seminar will give you the confidence you need to obtain your certification or to discuss the code with other professionals. A cumulative analysis will be provided. A question-and-answer period will follow.

*Instructor: Tim Collings*

**Comprehensive Analysis and Changes in the 2006 Uniform Plumbing Code™ (UPC™)** Session Code: 26ED06O (Monday)



Provides a comprehensive analysis of the changes and updates in the 2006 *Uniform Plumbing Code*. 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. In addition, the changes from the 2003 to the 2006 code will be reviewed. This seminar will give you the confidence you need to obtain your certification or to discuss the code with other professionals. A cumulative analysis will be provided. A question-and-answer period will follow.

**Instructor: Phil Campbell**

**Continued Use and Reuse of Existing Buildings** (½ day) Session Code: 27ED06H (Wednesday)

Addresses the relationship of the 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 IBC Chapter 34 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. 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. Major topics include: Regulations of additions; Alterations and repairs; Changes of occupancy considerations; Compliance alternatives and Application of the IEBC.

**Instructor: Brent Snyder**

**Creating an Inclusive Work Place** Session Code: 28ED06O (Friday)



What unique talents, potentials and proficiencies exist in your organization? Your department? Your work team? Did you know that leading organizations like Southwest Airlines, Disney and the City of Phoenix have been capitalizing on the diversity of their workforce for years? During this session, you will explore differences in generations, work styles, communication preferences and much more: understand your role and responsibility in creating inclusion; identify the benefits a diverse workforce has for you, managers and customers; learn five critical skills for managing the diversity around you; design strategies with other participants to create inclusion at work, have a lot of fun and develop some new networks.

**Instructor: Bill Bonds**

**Developing Leadership from Within and at All Levels Within the Organization** Session Code: 29ED06O (Wednesday)

Covers the following topics: 6 Traits of Great Leadership, Do You Measure Up?; Changing the Way We Think Can Be Like Moving an Ocean Liner; The Desire to Win vs. the Desire “Not” To Lose; Learning To Take the Leap of Faith; Embracing Change and Letting It Work for You; Helping Others Achieve Their Goals; Avoiding the Lone Malcontent; Get In Sync or Get Moving; It’s Tool Time - Are You Ready to Re-tool?; and Create A Personal Leadership Plan.

**Instructor: Anne Bruce**

**Effective Code Enforcement Techniques** (½ day) Session Code: 30ED06H (Thursday)



Session asks: What are the most efficient and effective methods of identifying code violations in your community? Are you making progress, or falling behind? Do your notices produce positive results? Are extensions of time appropriate? Have you heard of the “grid theory” for selecting a code enforcement strategy for your cases? Can prosecution be improved? What about abatement? Are you aware of actions other than prosecution and abatement that can be used to resolve violations? These topics and more will be covered in this class.

**Instructor: David Park**

**Effective Use of the 2003 IMC** (½ day) Session Code: 31ED06H (Friday)

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. 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**

**Effective Use of the 2003 IPC** (½ day) Session Code: 32ED06H (Friday)

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. 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 fixture 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 IRC**      **Session Code: 33ED06O** (Monday)

Provides a broad overview of the provisions of Chapters 1-10 of the IRC, those portions of the code that deal with “building” issues. The program does not address the mechanical, plumbing and electrical portions of the IRC. Administrative rules, building planning, foundations, wood-framed construction and roofing provisions are discussed. The seminar is applicable to all aspects of the regulatory/design/construction community, including contractors, design professionals, building officials, plans examiners and inspectors. Major topics include: Administration of the IRC; Definitions; Building planning; Foundation systems; Floor, wall and roof construction; Wall and roof coverings; Chimneys and fireplaces.

*Instructor: Brent Snyder*

**Electrical Code Workshop, Application of the NEC**      **Session Code: 34ED06O** (Monday)



Attendees will have a better understanding of the structure and organization of the NEC and how to properly apply it in real-world settings. The course uses examples and student participation. Each session will increase the student’s ability to establish a fix on the information contained in the NEC, to ease anxiety levels in the testing environment and to apply the NEC to actual field installations. All nine chapters of the NEC are covered, with specific emphasis placed on key areas of the document. Topics covered in depth include but are not limited to general electrical requirements in Article 110; Article 230, services; Article 240, overcurrent protection; and Article 250, grounding and bonding. Several articles in Chapter 3 will be covered. Article 430, motors; Article 440, air-conditioning equipment; and Article 450, transformers in Chapter 4 will be discussed. Hazardous locations and health care facilities in Chapter 5 will be covered. Chapters 6 and 7 will be looked at for an overview. Emergency systems in Article 700 will be studied. Chapter 9 will be used and referred to throughout the session.

*Instructor: Michael J. Johnston*

**Electrical Requirements of the IRC**      **Session Code: 35ED06O** (Friday)



Explains in clear, concise language, pictures and graphics the installation, design and inspections of electrical systems in new and existing one- and two-family dwellings. The seminar includes the electrical requirements of both the NEC and the IRC. Inspectors, contractors, electricians and students will find this seminar particularly helpful. This program will assist attendees in making more accurate, thorough and safer installations and inspections of one- and two-family dwellings dealing specifically with the electrical requirements of Chapters 33 through 42 of the IRC.

*Instructors: L. Keith Lofland, Rick Maddox*

**Establishing Building Permit Fees** (½ day)      **Session Code: 36ED06H** (Friday)

This half-day seminar looks at the fact that all across the United States, more and more taxpayers are demanding that fees charged for local government services not exceed the cost of the services for which the fees are assessed. This seminar is intended to serve as a tool to assist building officials in identifying the total costs of plan-check and inspection services rendered by their jurisdiction and develop plan-check and inspection fee schedules based on those costs. By using the information presented in this seminar, local building officials should be able to develop plan-check and inspection fees that will withstand public and political scrutiny.

*Instructor: Michael Bouse*

**Fire Pumps and Emergency Systems**      **Session Code: 37ED06O** (Tuesday)



This goes beyond the basics and examines electrical requirements involved with fire pumps and emergency systems. These critical systems are vital to the safety and welfare of the occupants of the structures involved. Some of the subjects covered pertaining to fire pumps include power sources, continuity of power, power wiring, transfer switches and control wiring. Emergency system seminar subjects include test procedures and maintenance, capacity, signals, signs, circuit wiring, sources of electrical power, illumination and overcurrent protection. This seminar, conveyed in easily understood language, is a must for those who wish to keep informed and increase their expertise in the specific requirements involved with fire pumps and emergency systems.

*Instructor: Michael J. Johnston*

**Fundamentals of Concrete Quality and Field Practices**      **Session Code: 38ED06O** (Wednesday)

Covers the construction and inspection applications of the IBC and referenced standard for concrete design and construction - *Building Code Requirements for Structural Concrete* (ACI 318-02). For quality and testing of materials used in concrete construction, the appropriate ASTM International (ASTM) standard specifications are referenced directly. The program emphasizes proper field procedures and inspection practices for quality structural concrete class topics including: 1) Introduction to Quality Concrete; 2) Materials for Concrete/Fundamentals of Concrete; 3) Selection of Concrete Proportions/Concrete Mix Design; 4) Batching and Mixing Concrete; 5) Transporting, Handling and Placing Concrete; 6) Field Tests of Fresh Concrete; 7) Hot Weather Concreting/Cold Weather Concreting; 8) Curing Concrete; 9) Evaluation and Acceptance of Concrete; and 10) Details and Detailing of Reinforcement.

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

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Track	Monday, February 27	Tuesday, February 28	Wednesday, March 1	Thursday, March 2	Friday, March 3
Advanced Building Inspections	IBC Accessibility Requirements Session Code: 40ED060	Mold Training Session Code: 47ED060	Wood-Frame Roof, Shear Diaphragms and Prescriptive Methods Session Code: 67ED060	Alternative Materials for Residential/Commercial Projects Session Code: 17ED060	Building Areas, Fire Areas and Mixed Occupancies Session Code: 20ED060
Amusement Ride Inspection	Basic Ride Inspections Session Code: 18ED06V	Dynamic Ride Inspection Session Code: 18ED06V	Hands-on Training <b>OFF-SITE LOCATION</b> Adventure Dome Staff at Circus Circus Session Code: 18ED06V	Facility Inspection Session Code: 18ED06V	Certification Session Code: 18ED06V
Architectural Design & Practices	Advanced Occupancy Session Code: 14ED060	Advanced Schematic Design Session Code: 15ED060	Advanced Types of Construction Session Code: 16ED060	Advanced Means of Egress Components Session Code: 12ED060	Advanced Means of Egress Design Session Code: 13ED060
Building Design, Review and Construction	Advanced Occupancy Session Code: 14ED060	Multiple-Family Construction and the IBC Session Code: 49ED060	Wood-Frame Roof, Shear Diaphragms and Prescriptive Methods Session Code: 67ED060	Alternative Materials for Residential/Commercial Projects Session Code: 17ED060	IBC Overview: Looking Forward to 2006 Session Code: 42ED060
Building/Fire Inspections and Plan Review	2003 IFC Fire Protection Systems Session Code: 04ED060	Fire Pumps and Emergency Systems Session Code: 37ED060	Continued Use and Reuse of Existing Building Session Code: 27ED06H Tenant Improvement Aspects of Assembly, Business and Mercantile Occupancies Session Code: 63ED06H	Understanding Fire-Resistance-Rated Construction Session Code: 65ED060	Building Areas, Fire Areas and Mixed Occupancies Session Code: 20ED060
Code Enforcement	Legal Aspects of Code Administration Session Code: 46ED060	Mold Training Session Code: 47ED060	Personal Safety in Code Enforcement Session Code: 50ED060	Effective Code Enforcement Techniques Session Code: 30ED06H Communication Strategy for Public Officials Session Code: 24ED06H	Creating An Inclusive Workplace Session Code: 28ED060
Commercial Plan Review	IBC Accessibility Requirement Session Code: 40ED060	Multiple-Family Construction and the IBC Session Code: 49ED060	IBC Commercial Plan Review Session Code: 41ED060	Commercial Plan Review of Plumbing, Mechanical and Electrical Session Code: 23ED060	Building Areas, Fire Areas and Mixed Occupancies Session Code: 20ED060
Department Personnel	Legal Aspects of Code Administration Session Code: 46ED060	The Permit Counter-Skills and Strategies for the Front Line Session Code: 64ED060	Developing Leadership from Within and at All Levels Within the Organization Session Code: 29ED060	2006 IBC Update Session Code: 06ED06H 2006 IRC Update Session Code: 08ED06H	2006 IBC Update Session Code: 07ED06H 2006 IRC Update Session Code: 09ED06H
Electrical	Electrical Code Workshop, Application of the NEC Session Code: 34ED060	Fire Pumps and Emergency Systems Session Code: 37ED060	Commercial Electrical Workshop, Based on the Current NEC Session Code: 22ED060	Residential Electrical Workshop, Based on the Current NEC Session Code: 55ED060	Electrical Requirements of the IRC Session Code: 35ED060
 Fire Code Applications (Hosted by the Southern Nevada Fire Prevention Association)	2003 IFC Fire Protection Systems Session Code: 04ED060	2003 IFC Fundamentals Session Code: 05ED060	2003 IBC Hazardous Materials Session Code: 02ED060	2003 IBC Day Care and Assistive Living Session Code: 01ED060	Understanding the IBC Requirements for Fire Alarm Systems Session Code: 66ED060



Track	Monday, February 27	Tuesday, February 28	Wednesday, March 1	Thursday, March 2	Friday, March 3
Principles of Fire Protection	Principles of Fire Protection Engineering (1-10) Session Code: 51ED06F	Principles of Fire Protection Engineering (1-10) Session Code: 51ED06F	Principles of Fire Protection Engineering (1-10) Session Code: 51ED06F	Principles of Fire Protection Engineering (1-10) Session Code: 51ED06F	Introduction to Structural Fire Protection Session Code: 44ED06H
Fire Protection Engineering	Principles of Fire Protection Engineering (1-5) Session Code: 52ED06T	Principles of Fire Protection Engineering (1-5) Session Code: 52ED06T	Principles of Fire Protection Engineering (6-10) Session Code: 53ED06T	Principles of Fire Protection Engineering (6-10) Session Code: 53ED06T	Interior Finishes, Facades, Decorative Features and More Session Code: 43ED06O
Leadership Essentials	Motivating Every Employee "Kicking Performance Up a Notch" Session Code: 48ED06O	Been There. Done That. Now What? Advanced Supervisory Skill Builder Session Code: 19ED06O	Developing Leadership from Within and at All Levels Within the Organization Session Code: 29ED06O	Inward Mobility "Human Potential and Improving the Work Environmental" Session Code: 45ED06O	How to Handle the Media Interview Session Code: 39ED06H Establishing Building Permit Fees Session Code: 36ED06H
Plumbing & Mechanical	Comprehensive Analysis and Changes in the 2006 UPC Session Code: 26ED06O	Advanced Inspection Practices for the UPC Session Code: 11ED06O	Comprehensive Analysis and Changes in the 2006 UMC Session Code: 25ED06O	Advanced Inspections Practices for the UMC Session Code: 10ED06O	Effective Use of the 2003 IPC Session Code: 32ED06H Effective Use of the 2003 IMC Session Code: 31ED06O
Residential Inspections	Effective Use of the IRC Session Code: 33ED06O	Site Soils, Footings, Foundations and Locations of the Lot (IRC) Session Code: 56ED06O	Residential Building Inspections Session Code: 54ED06O	Residential Electrical Workshop, Based on the Current NEC Session Code: 55ED06O	Effective Use of the 2003 IPC Session Code: 32ED06H Effective Use of the 2003 IMC Session Code: 31ED06H
Residential Commercial Inspection	Combination Inspections of Small Commercial Structures Session Code: 21ED06O	Multiple-Family Construction and the IBC Session Code: 49ED06O	IBC Commercial Plan Review Session Code: 41ED06O	Commercial Plan Review of Plumbing, Mechanical and Electrical Session Code: 23ED06O	IBC Overview: Looking Forward to 2006 Session Code: 42ED06O
Structural & Geotechnical Design	2003 IBC Wood Design ASD Session Code: 03ED06O	Structural Welding: Design and Specification Session Code: 62ED06O	Steel Connections: Seismic Applications Session Code: 58ED06O	Structural Provisions of the 2003 IBC Session Code: 60ED06O	Introduction to Structural Fire Protection Session Code: 44ED06O
Structural Inspection I	Structural Plan Reading Session Code: 59ED06T	Structural Plan Reading Session Code: 59ED06T	Fundamentals of Concrete Quality and Field Practices Session Code: 38ED06O	Alternative Materials for Residential/Commercial Projects Session Code: 17ED06O	Special Inspector Certification Renewal Update Session Code: 57ED06O
Structural Inspection II	Structural Plan Reading Session Code: 59ED06T	Structural Plan Reading Session Code: 59ED06T	Fundamentals of Concrete Quality and Field Practices Session Code: 38ED06O	Structural Steel Inspection Session Code: 61ED06O	Special Inspector Certification Renewal Update Session Code: 57ED06O
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Tradeshow		Tradeshow Mardi Gras Ballroom	Tradeshow Mardi Gras Ballroom	Tradeshow Mardi Gras Ballroom	Tradeshow Mardi Gras Ballroom

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**How to Handle the Media Interview** (½ day)      **Session Code: 39ED06H** (Friday)

Do your knees tremble when a reporter puts a microphone in your face? Does your body go limp when you pick up the phone and hear, “I’m a reporter and I just have a few questions for you?” Learn how to control these fears and get your message across in our “Surviving the Media Interview” session. During this interactive session you’ll learn some of the methods reporters use to get you to say certain things, and, more important, ways that you can take back control of an interview. After you’ve mastered these skills, we’ll have some fun by turning the cameras on you and doing mock interviews (volunteers only!) and then doing friendly critiques so we can all learn even more. Come prepared to participate!

*Instructor: Kathy Carter*

**IBC Accessibility Requirements**      **Session Code: 40ED06O** (Monday)



Provides an overview of the scoping provisions for accessibility in the IBC 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 the building department and the American Disabilities Act Accessibility Guidelines.

*Instructor: Tom Meyers*

**IBC Commercial Plan Review**      **Session Code: 41ED06O** (Wednesday)



Explains the process of conducting a plan review for small/medium-sized commercial projects based on the IBC. The class will provide students with formats, processes and understanding on how to conduct a commercial review.

*Instructor: Steve Thomas*

**IBC Overview: Looking Forward to 2006**      **Session Code: 42ED06O** (Friday)



Explores the major provisions of the 2006 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: Steve Thomas*

**Interior Finishes, Facades, Decorative Features and More**      **Session Code: 43ED06O** (Friday)



Focuses on the fire protection aspects of IBC Chapters 8 (Interior Finishes) and 26 (Plastics). Why these requirements are in the code (fire losses) and the physics (fire dynamics) applicable to the respective code requirements will be included. The discussion will cover typical applications related to these code sections and include numerous examples of unique applications that abound on the Las Vegas Strip.

*Instructor: Doug Evans, P.E.*

**Introduction to Structural Fire Protection**      **Session Code: 44ED06O** (Friday)



Provides an overview of the rules and guidelines that can be used to assess the fire resistance of building assemblies composed of steel, concrete, masonry and wood. In addition, the seminar outlines methods of performance-based analysis to determine the fire resistance of exposed structural assemblies. These include methods to estimate the temperature of steel members exposed to fire and to calculate the structural response of concrete slabs and steel columns. The availability of computer-based methods to conduct performance-based analysis will be discussed. This seminar is valuable to code officials, architects and engineers who need to assess or understand assessments of the fire resistance of building assemblies.

*Instructor: Dr. James Milke, P.E.*

**Inward Mobility “Human Potential and Improving the Work Environment”**      **Session Code: 45ED06O** (Thursday)

Covers the following topics: Inward mobility is always better than upward mobility; When You Make the Most of Yourself, You Make the Most of Your Environment; Making Irritations and Distractions Less Draining; Moving Toward Something Positive vs. Trying to Leave Something Negative Behind; Lightening Your Load for the Rest of Your Life; The Power of Authenticity as a Workplace Driving Force; When Inner Wisdom Becomes on the Job Performance; Pacing Yourself and Creating Momentum and Equilibrium; Developing Yourself From Within Keeps You “Inwardly” Mobile and Moving Forward; and Get Unstuck “Now!”

*Instructor: Anne Bruce*

**Legal Aspects of Code Administration**      **Session Code: 46ED06O** (Monday)



This course will be an overview of 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 Morris*

**Mold Training** Session Code: 47ED06O (Tuesday)



This course will be an overview of the biology of mold, basis of current mold concerns, health effects of mold exposure, personal protection, mechanisms of mold development in buildings, attic space mold issues, wall cavity mold issues, EIFS mold-related issues, construction-related mold causation, maintenance-related mold causation, building ventilation relationships to mold growth, mold testing techniques and mold remediation practices.

*Instructor: Gary Crawford*

**Motivating Every Employee “Kicking Performance Up A Notch!”** Session Code: 48ED06O (Monday)

This seminar covers the following topics: Crank Up the Organization A Notch Higher!; Business as “Un” usual, How Do You Inspire and Connect with People?; Fast and Easy Proven Tactics That Spark Productivity Now!; Build Relationships and Boost Morale; Best Practices in Motivation. ..Taking It to the Next Level and Beyond; A View of the Motivated Workforce; Handling De-Motivation; Create Your Own Morale Audit; Synergy and the Success It Breeds.

*Instructor: Anne Bruce*

**Multiple-Family Construction and the IBC** Session Code: 49ED06O (Tuesday)



This class provides an overview of the requirements for multiple-family dwellings in the IBC. Type V-A construction may be the most difficult type of construction to build. This seminar discusses 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: Tom Meyer*

**Personal Safety in Code Enforcement** Session Code: 50ED06O (Wednesday)



This session is a facilitated, audience-driven presentation that combines information and motivation to help reexamine attitudes and skills that affect the safety of community-based workers. Students receive a workbook that follows the presentation and allows them to take notes while being fully involved in this unique learning experience; Material covered includes: statistics of personal safety; developing a survival mindset; recognizing danger cues within a residence; warning signs in the neighborhood; evaluating your clients; dynamics of verbal confrontations; verbal skills and aggression management; recognizing nonverbal signs of aggression; personal safety and customer satisfaction; body positioning and personal safety; weapons and self defense. Instructors will answer personal questions during the program breaks.

*Instructor: Larry Jackson*

**Principles of Fire Protection Engineering (Parts I and II — 1-10)** Session Code: 51ED06F (Monday, Tuesday, Wednesday, Thursday)



The Principles of Fire Protection Engineering Part I is a four-day seminar intended for individuals who have design, enforcement or advisory responsibilities, including fire protection engineers, architects, plan checkers, fire prevention personnel and others concerned with fire protection.

Over four days the following subjects will be covered: 1) Combustion and Ignition Phenomenon - Theories of diffusion flame combustion, fire dynamics, suppression theory, and suppression agents; 2) Fire Endurance Evaluation - Review of the development and application of standard and innovative fire-endurance test procedures for building assemblies including doors, windows, walls, floors and ceilings; 3) Construction and Structural Features - Performance of basic construction materials in the fire environment; the fire compartment involvement process and the concept of designing building compartmentalization; 4) Materials Applications - Evaluation procedures for flame spread, smoke production and toxicity of interior finish, floor coverings and furnishings; 5) Fire Protection Design Evaluation - Procedures for the evaluation of fire safety. Smoke management systems, design principles and evaluation techniques; 6) Life Risk Analysis - Human tenability limits. Human behavior variables in fire incidents including convergence clusters, social inhibition-facilitation, altruistic and nonadaptive actions; 7) Detection and Alarm Systems - Review of the types of detectors and laboratory evaluation test procedures. Reliability and installation design characteristics; 8) Sprinkler System Developments - Characteristics of design and approval of the various types of sprinkler and water mist nozzles with application implications; 9) Design of Water Suppression Systems - Design of sprinkler and water mist systems with review of standard procedures and innovative research applications; and 10) Egress and Exits - Basic theoretical code concepts with examination of egress components and design variables.

*Instructors: Dr. James Milke, P.E. and Dr. John L. Bryan*

**Principles of Fire Protection Engineering (Part I — 1-5)** Session Code: 52ED06T (Monday, Tuesday)



The Principles of Fire Protection Engineering Part I is a two-day seminar intended for individuals that have design, enforcement or advisory responsibilities, including fire protection engineers, architects, plan checkers, fire prevention personnel and others concerned with fire protection.

Over two days the following subjects will be covered: 1) Combustion and Ignition Phenomenon - Theories of diffusion flame

*(Continued on page 12)*

## **Principles of Fire Protection Engineering (Part I — 1-5) *continued***

combustion, fire dynamics, suppression theory and suppression agents; 2) Fire Endurance Evaluation - Review of the development and application of standard and innovative fire-endurance test procedures for building assemblies including doors, windows, walls, floors and ceilings; 3) Construction and Structural Features - Performance of basic construction materials in the fire environment, the fire compartment involvement process and the concept of designing building compartmentalization; 4) Materials Applications - Evaluation procedures for flame spread, smoke production, and toxicity of interior finish, floor coverings and furnishings; and 5) Fire Protection Design Evaluation - Procedures for the evaluation of fire safety. Smoke management systems, design principles and evaluation techniques.

*Instructors: Dr. James Milke, P.E. and Dr. John L. Bryan*

## **Principles of Fire Protection Engineering (Part II — 6 - 10)      Session Code: 53ED06T (Wednesday, Thursday)**



The Principles of Fire Protection Engineering Part II is a two-day seminar intended for individuals that have design, enforcement or advisory responsibilities, including fire protection engineers, architects, plan checkers, fire prevention personnel and others concerned with fire protection.

Over two days the following subjects will be covered: 1) Life Risk Analysis - Human tenability limits. Human behavior variables in fire incidents including convergence clusters, social inhibition-facilitation, altruistic and nonadaptive actions; 2) Detection and Alarm Systems - Review of the types of detectors and laboratory evaluation test procedures. Reliability and installation design characteristics; 3) Sprinkler System Developments - Characteristics of design and approval of the various types of sprinkler and water mist nozzles with application implications; 4) Design of Water Suppression Systems - Design of sprinkler and water mist systems with review of standard procedures and innovative research applications; and 5) Egress and Exits - Basic theoretical code concepts with examination of egress components and design variables.

*Instructors: Dr. James Milke, P.E. and Dr. John L. Bryan*

## **Residential Building Inspections      Session Code: 54ED06O (Wednesday)**



Provides new residential inspectors with basic techniques for conducting inspections of one- and two-family dwelling and townhouse buildings. The discussion will include preparation, presentation and inspections of the building, plumbing, mechanical and electrical portions of a building.

*Instructor: Tom Meyers*

## **Residential Electrical Workshop, Based on the Current NEC      Session Code: 55ED06O (Thursday)**



This workshop is valuable for inspectors, contractors, electricians, and students wanting to broaden their knowledge of the residential electrical systems, to enhance their general understanding of NEC rules and to learn how to apply these rules in everyday situations. The instructor explains in clear, concise language the installation, design and inspection of electrical systems in dwellings. Examples of application of the NEC rules to installations and systems and major checklists for inspectors and installers will be presented.

*Instructors: L. Keith Lofland, Rick Maddox*

## **Sites, Soils, Footings, Foundations and Locations on the Lot (IRC)      Session Code: 56ED06O (Tuesday)**

This seminar provides in-depth training on the IRC code provisions for getting a “building out of the ground.” The seminar is applicable to all aspects of the regulatory/design/construction community, including contractors, design professionals, plans examiners and inspectors. Major topics include: Soils and geotechnical reports, Soils drainage, Use of prescriptive tables, Slabs on ground, Slope requirements, Basements and crawl spaces.

*Instructor: Brent Snyder*

## **Special Inspector Certification Renewal Update      Session Code: 57ED06O (Friday)**

This seminar is designed as a certification renewal update seminar for special inspectors and 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. This seminar applies in part for certification renewal for the 2003 edition of the IBC. This seminar will satisfy 0.75 Continuing Education Units (CEUs) of the total required 2.5 CEUs for special inspector certification renewal. The seminar addresses the 2003 IBC and referenced material standards and how the 2003 IBC will affect the job tasks of the special inspector. Seminar topics include: ICC National Certification Program; national recognition for special inspectors; Overview of the “new” Special Inspector Certification Maintenance Program; and Overview of the 2003 special inspection provisions and related material standards, including new duties and responsibilities for the special inspector. Additionally, the program will include a special segment to be presented by a local building official addressing “Special Inspection Practice.”

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

**Steel Connections: Seismic Applications** Session Code: 58ED06O (Wednesday)

Covers the design, construction and inspection of connections in steel buildings using the new 2005 AISC Seismic Provisions, the new AISC 358 Prequalified Connection Standard and the AWS D.1.8 Seismic Welding Code Supplement.

*Instructor: Robert Shaw, P.E.*

**Structural Plan Reading Class** Session Code: 59ED06T (Monday, Tuesday)

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 the alphabet of lines, symbols and notations, basic views, details and sections, dimensioning, schedules and structural plans.

*Instructor: William FitzJohn, CITR*

**Structural Provisions of the 2003 IBC** Session Code: 60ED06O (Thursday)

Provides a broad overview and perspective of the structural design elements of the IBC with emphasis on what's new (2000 IBC to 2003 IBC) in building code requirements for seismic and wind design and construction. With the 2006 IBC nearing completion, the seminar will also include a sneak preview of the significant changes coming in the next edition of the IBC, including referenced standard ASCE 7-05!

*Instructor: Gerald Neville, P.E.*

**Structural Steel Inspection** Session Code: 61ED06O (Thursday)

Includes discussion of steel building inspection, structural steel identification, fabrication and erection, welding, bolting, metal decks, steel bar joists, shear connectors and fabrication plant qualification.

*Instructor: Robert Shaw, P.E.*

**Structural Welding: Design and Specification** Session Code: 62ED06O (Tuesday)

Covers the design and specification of welding for steel-framed structures using the new AWS D.1.1 2004 code, AISC's new specifications and recent research.

*Instructor: Robert Shaw, P.E.*

**Tenant Improvement Aspects of Assembly, Business and Mercantile Occupancies** (½ day) Session Code: 63ED06H (Wednesday)

Identifies the many 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. 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. Major topics include: Occupancy separations and fire areas; Type of construction features; Fire-resistance-rated construction; Interior finish materials; Fire protection features; Means of egress components; and Means of egress design.

*Instructor: Brent Snyder*

**The Permit Counter — Skills and Strategies for the Front Line** Session Code: 64ED06O (Tuesday)



Provides the importance of counter staff as the public's first contact and how to provide the best level of customer service staffing levels. This course utilizes a practical application approach through team exercises. Upon completion, participants will be better able to identify the duties and responsibilities of public counter personnel, to assist applicants, to verify accuracy and completeness of information, to maintain a filing system, to work in a computerized environment and to deal effectively with difficult people.

*Instructor: ICC Instructor*

**Understanding Fire-Resistance-Rated Construction** Session Code: 65ED06O (Thursday)

Focuses on those elements of buildings that are required to be fire-resistance rated due to other provisions of the code. Based on the IBC, provisions applicable to all of the occupancies and construction types will be addressed. The seminar is applicable to all aspects of the regulatory/design/construction community, including building officials, fire officials, plans examiners, inspectors, design professionals and contractors. Major topics include: Required fire-resistance-rated construction in the IBC; Resources to verify fire-resistance-rated construction; Fire walls, fire barriers and fire partitions; Horizontal assemblies; Shaft enclosures; Fire doors and fire windows; Penetrations and joints; Fire dampers and smoke dampers; Fire-blocking and draftstopping.

*Instructor: Brent Snyder*

## Understanding the IBC Requirements for Fire Alarm Systems

Session Code: 66ED060 (Friday)



Provides training on where fire alarm requirements are found in the 2003 IBC, what is required for a variety of different occupancies and how to use this information.

*Instructor: AFAA Instructor*

## Wood-Frame Roof, Shear Diaphragms and Prescriptive Methods

Session Code: 67ED060 (Wednesday)

This seminar will cover common engineering terminology and provisions regulating lateral-force-resisting systems (shear and diaphragm) in accordance with the 2000 IBC. Performance and prescriptive design standards will be covered as well.

*Instructor: Tom Buist, Majid Pakniat*

## CONTINUING EDUCATION INFORMATION

All EduCode sessions are recognized for ICC CEUs towards maintenance of ICC Certifications. Check with your local licensing board for CEU information.

## 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

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 February 12, 2006.

#### 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 February 12, 2006.

#### 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 February 12, 2006. Register by January 15, 2006. Courses fill up quickly! Deadline to submit registration to ICC is February 12, 2006. Registration after February 12, 2006 may be submitted on-site (at EduCode) on a walk-in basis. On-site/walk-in registrations **CANNOT** be guaranteed of course selections.

#### REGISTRATION

- \$600 — Full Five-Day Attendance
- \$150 — Per Day, Per Person

#### On-site Registration

- \$700 — Full Five-Day Attendance
- \$175 — Per Day, Per Person

### 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 February 8, 2006 in order for you to receive a full refund. Allow 14 additional days for reimbursement. No requests for refunds will be accepted after February 8, 2006.

#### CONFERENCE LOCATION

The Orleans Hotel, 4500 W. Tropicana Avenue, Las Vegas, Nevada. Convention is located on the 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 February 3, 2006. 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 \$60 per night from Sunday through Thursday and \$110 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.





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