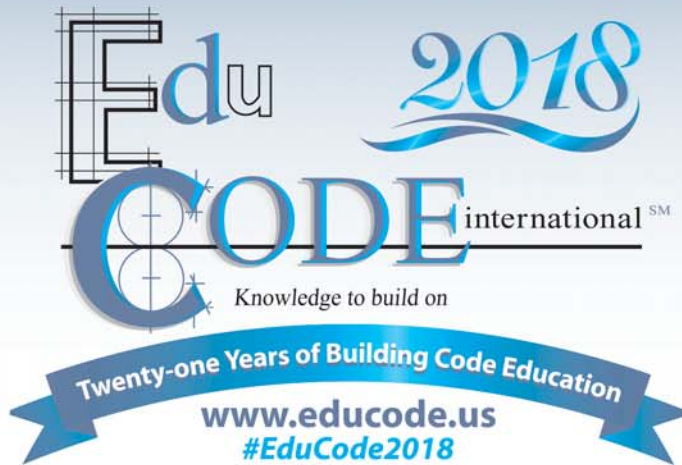
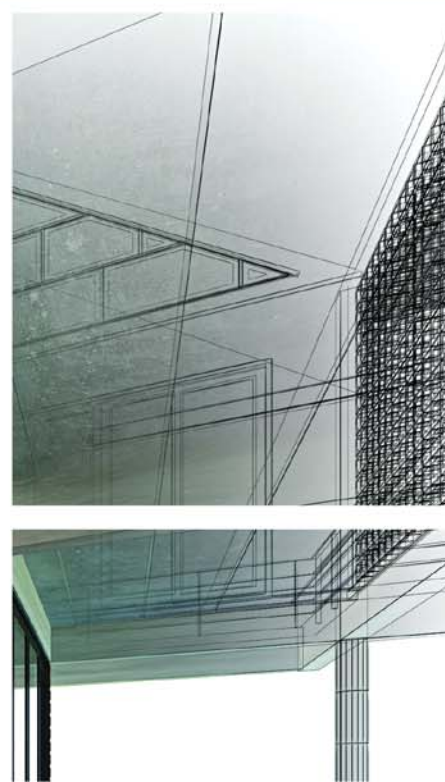


Register by
Feb. 19, 2018
for the best selection.

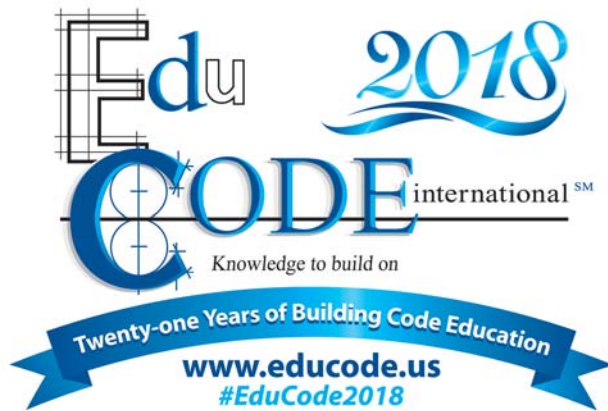


March 19-23, 2018
THE ORLEANS HOTEL
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www.iccsafe.org/EduCode



People Helping People Build a Safer World®



Welcome to EduCODE 2018!

On behalf of the Southern Nevada Chapter of the International Code Council and the Southern Nevada Building Officials, we welcome you to our 21st year of providing outstanding educational programs. EduCODE is designed to provide the best educational training in the country along with several networking opportunities to provide the best possible overall experience. Again this year we have many nationally acclaimed presenters, daytime and evening networking opportunities throughout the week, numerous industry representatives showcasing the latest products and services at our daily expo, the ICC bookstore, and a staff that will do everything possible to make your visit beneficial, fun and memorable.

Where else can you choose from over 90 classes at one location, all ICC Preferred Provider certified, brainstorm with instructors, building safety and fire prevention professional students and staff alike, and have fun doing it! EduCODE 2018, that's where!! Whether you attend for one day or the entire week, we are certain that you will have an exceptional experience that you will never forget.

If you have questions or need assistance in any way, please do not hesitate to ask an EduCODE volunteer for assistance. We will be glad to help. Welcome to EduCODE 2018!! We are glad you are attending.

The 2018 EduCODE Committee

2015 IBC Essentials — Session 1

CEU: 0.8

Instructor: George Mann



This seminar focuses on the basic concepts of the 2015 *International Building Code*® (IBC®) that provide a basis for the correct use and application of the code. A clear understanding of the identified requirements allows code users to develop a procedure for applying the IBC in specific situations and helps to build an understanding of the intent of the code when asked to make a judgment on code compliance. This seminar will address the organization of the code and how it relates to the ICC family of International Codes® (I-Codes®).

2018 IBC Means of Egress — Session 2

CEU: 0.8

Instructor: Terrell Stripling



This course addresses numerous requirements in the 2018 *International Building Code*® (IBC®) pertaining to establishing a means of egress in buildings. It is intended to help plan reviewers or building code officials responsible for plan review to identify areas where plan review will include compliance with the IBC. Participants will be presented with specific problems related to means of egress and will be asked to solve case studies, as well as discuss sections of the IBC that pertain to plan review of a commercial building.

Electrical Inspections — Session 3

CEU: 0.8

Instructors: Rick O'Brien & Randy Hunter



This seminar takes you through basic commercial and residential inspections using detailed photos to explain the installation requirements for electrical equipment. Photos showing correct and incorrect installation methods will be used to illustrate NEC requirements and installation requirements published by equipment manufacturers. This is an introductory course for inspectors with limited electrical experience and those new to inspections, and will be beneficial for others who would like a refresher on electrical installations. Engineers with a desire to learn more about field installations will also benefit. This class is continually updated from year to year to reflect current issues found by inspectors.

2018 IBC Fire and Life Safety Principles — Session 4

CEU: 0.8

Instructor: John Gibson



This seminar addresses the critical concepts of the 2018 *International Building Code*® (IBC®) regarding fire and life safety issues, along with issues that are necessary for many design and plan review decisions. These concepts provide a basis for the correct use of the code in building planning, classification of buildings and occupancies, fire-resistance-rated construction, fire protection systems and means of egress. Participants will listen to lecture, review sections of the IBC that pertain to fire and life safety principles in buildings, and test their knowledge with quizzes and other individual and group activities.

Fire-Resistant-Rated Construction — Session 5

CEU: 0.8

Instructor: Steve Thomas



This course focuses on those elements of buildings that are required to be fire-resistance rated due to other provisions of the code. Based on the *International Building Code*® (IBC®), provisions applicable to all of the occupancies and construction types will be addressed. The seminar is applicable to all members 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 draft-stopping.

IRC Plan Review — Session 6

CEU: 0.8

Instructor: Gil Rossmiller



Designed to provide a broad overview of the process for residential plan review, this one-day course will provide the basic steps involved to complete a comprehensive review of a residence. The class will discuss the tools and process for conducting a residential plan review. It will also increase your awareness of the necessary items required to ensure code compliance of the homes built in your jurisdiction.

NFPA 13 Plan Review — Session 7

CEU: 0.8

Instructor: Russ Leavitt



This seminar has been developed to give attendees core training and an introduction to the process of reading, interpreting and determining the compliance of fire sprinkler system plans and hydraulic calculations with the applicable codes and standards for design and installation. The process involves a review of various topics contained in the 2016 edition of NFPA 13, *Standard for the Installation of Sprinkler Systems*. The recent revisions to NFPA 13 compels a more detailed approach to review of plans and support documents. Discussion and information provided will include topics such as identification of various construction types, commodity classes, occupancy hazards, system types, and sprinklers themselves. This seminar relies heavily on class participation utilizing several class exercises to: 1) use established methods to determine coverage areas for various sprinkler spacings and the resulting minimum water discharge, 2) provide the math necessary to interpret water flow test results, 3) perform review of a sample plan with supporting hydraulic calculations, followed by a review and discussion of deficiencies. Upon completion of this seminar, participants should be able to interpret compliance of fire sprinkler system plans and hydraulic calculations; identify coverage area maximums and sprinkler locations; identify various NFPA 13-defined construction types; and describe potential plan deficiencies. Attendees should bring the NFPA 13 (2016 Ed.) standard, architectural scale, and calculator with exponential math capabilities. Plan reviewers, fire inspectors, insurance representatives, architects, system layout technicians, and engineers will all find this to be a very beneficial learning experience. **Required Materials:** NFPA 13 (2016 Ed.), architectural scale, calculator with exponential math capabilities.

2018 UPC Code Changes — Session 8

CEU: 0.8

Instructor: IAPMO Instructor



Keep up-to-date on the *Uniform Mechanical Code*® (UMC®) by learning about the changes from the 2015 to the 2018 edition. Each notable change to the code will be discussed in depth so attendees can see exactly how the code changed, why the code changed, and what impact it will have on the code enforcement and installer communities.

Leadership IMPACT – Communications — Session 9

CEU: 0.8

Instructor: Tim Schneider



The ability to communicate effectively and at the right frequency is the core of success in leadership, business and life. Those who are able to relay instructions, vision and more can connect with others, enhance personal productivity and avoid unneeded conflicts. This program will enhance the ability to listen, communicate clearly, manage communication tone, match communication style and control nonverbal tone. Additionally, communication boundaries, frequency and the incredibly important skill of communication richness will be presented. Leadership IMPACT-Communications introduces participants to the powerful DiSC assessment as a highly accurate predictor of communication style and other key tendencies.

Structural Loads and Load Paths — Session 10 — Half Day AM

CEU: 0.4

Instructor: Sandra Hyde



Mid-career residential and commercial inspectors and plan examiners will find this seminar useful as well as architects and engineers looking for a review of structural loads and their load paths. The load path, simply put, is the direction in which each consecutive load will pass through connected members. The sequence commences at the highest point of the structure working all the way down to the footing system, ultimately transferring the total load of the structure to the foundation. The direction that loads are transferred through a structure is important and must be identified. With a focus on connections, the course considers moment frame, braced frame and shear wall load paths in selecting a particular structural frame for a single-story, low-rise or mid-rise building.

Reinforcing Steel Inspection — Session 11 — Half Day PM

CEU: 0.4

Instructor:

Gregory E. Halsted, P.E.



In this fast-paced seminar, attendees will discuss the proper uses of reinforcing steel in concrete. Further, attendees will be introduced to the Concrete Reinforcing Steel Institute (CRSI) and how it assists the “built environment” with concrete reinforcing steel. Basic questions will be discussed, explained, answered and reasons then given; why and how we reinforce concrete. The seminar will provide an extensive overview of the CRSI *Manual of Standard Practice*, how reinforcing steel is manufactured, fabricated and placed, look at couplers and anchors and the different types and coatings available for reinforcing steel. Field inspection practices will be discussed, including drawings, bar spacing, tolerances, surface conditions, cutting, bending, codes and more. Publications, videos and sample products for a hands-on understanding will also be incorporated.

IBC Practical Occupancy Classification — Session 12

CEU: 0.8

Instructor: Greg Keith



This class is an interactive workshop that will discuss the characteristics of the various *International Building Code*® (IBC®) occupancy classifications in detail. Practical application will be emphasized through the utilization of the risk-based system to properly classify occupancies. Subtle differences between occupancy, use and function will be addressed. Attendees will be familiarized with the unique aspects of Group H occupancy classification, on which countless detailed code requirements are based. It is imperative that design professionals and code enforcement officials fully understand this important first step to building design and analysis. Applicable changes to the 2018 IBC will be discussed in context with discussed provisions.

Ins and Outs of Vacant Property Registration Ordinances — Session 13

CEU: 0.8

Instructors: Heather Thomas
Lazar and Andrew Hohensee



Jurisdictions are addressing the rising volume and negative impacts of vacant properties with the enactment of vacant property registration ordinances (VPRO). These legislative responses can have significant impacts on code enforcement officers. Speakers and colleagues will provide a history of VPROs, explore national trends, examine vacancy versus foreclosure registries, rental property registries, discuss successful elements to deliver local objectives, and much more. Some jurisdictions administer VPROs on their own, while others rely on another party to manage registrations - the pros and cons of each will be dissected. The inclusion of and connection with property maintenance standards will round the dialogue. This interactive seminar is for both those new to VPROs, as well as those more experienced.

A117.1-2017 Significant Changes — Session 14 — Half Day AM

CEU: 0.4

Instructor: Jay Woodward



Designed to provide a broad overview of the process for residential plan review, this one-day course covers the basic steps, tools and process involved to complete a comprehensive review of a residence. It will also increase awareness of the items required to ensure that the homes built in your jurisdiction are code compliant.

SESSION DESCRIPTIONS | MONDAY, MARCH 19

2018 IEBC Accessibility — Session 15 — Half Day PM

CEU: 0.4

Instructor: Jay Woodward



This seminar will introduce critical concepts of the 2018 *International Existing Building Code*® (IEBC®) as it pertains to accessibility. Accessibility provisions apply across all compliance options in the IEBC. This class will focus on issues of how repairs, alterations, additions and changes of use affect the application of the access provisions. Some of the primary topics include: understanding the limits of where the access provisions apply, how a “primary function area” can affect elements beyond the scope of the original project, how to count dwelling units to determine requirements and what is needed, how the IEBC exceeds Fair Housing, priorities of altered elements, and altering existing restrooms or using a family/assisted-use restroom.

Inspector Skills — Session 16

CEU: 0.8

Instructor: Steve Van Note



This seminar addresses the necessary soft skills for success as an inspector—those non-technical traits and behaviors that enhance an inspector’s ability to interact with others and to successfully carry out their job duties. These include people skills such as effective communication, diplomacy and customer service, but also include skills for problem solving, professionalism, integrity, and time management. In addition to a solid understanding of the technical provisions of the codes, developing appropriate soft skills is essential in pursuing the goal of safe, healthy and durable buildings for the community. Developed specifically for construction inspectors in all disciplines, the topics covered are equally important to all employees of public service agencies including permit technicians, plan reviewers, managers, building officials and fire code officials. The information is also beneficial for developing policies and procedures to promote consistent and fair inspection practices while improving communications and public relations.

So You Want To Be a Building Official — Session 17

CEU: 0.8

Instructor: Steve Burger,
CBO, LEED AP

This class will cover the basics of what is required to be a building official including politics, personnel issues, budgeting, image, dealing with the public, professional development, staffing, dealing with the media, management, ethics and basic legal matters. Class participation will be encouraged.

SESSION DESCRIPTIONS | TUESDAY, MARCH 20

2018 IBC Significant Changes — Session 18

CEU: 0.8

Instructor: Doug Thornburg



This seminar reviews and analyzes selected significant changes from the 2015 to the 2018 edition of the *International Building Code*® (IBC®). It familiarizes building officials, fire officials, plans examiners, inspectors and design professionals with many of the significant changes in the 2018 IBC. It also assists code users in identifying the specific code changes that have occurred and understanding the reason behind the change. Finally, it focuses on those code changes selected due to their frequency of application, special significance or change in application. This course uses the *Significant Changes to the International Building Code*®, 2018 Edition.

****This seminar is being repeated throughout the week. See Session #55 for details.***

2018 IRC Building Safety Features — Session 19

CEU: 0.8

Instructors: John Gibson &
Steve Van Note



This seminar addresses the critical concepts of the 2018 *International Residential Code*® (IRC®) regarding fire and life safety issues. These concepts provide a basis for the correct use of the code in building planning, fire resistance, means of egress, emergency escape and rescue, safety glazing and other building safety provisions. Discussion relates to the design, plan review and inspection decisions necessary to ensure safe residential buildings complying with the IRC.

NFPA 70E — Session 20

CEU: 0.8

Instructor: Howard Herndon

Book Fee: \$78.00



This is an extensive and popular program analyzing the major points to enable attendees to further their knowledge on safe practices related to electrical safety based on the current edition of NFPA 70E. Extremely detailed instructions and demonstrations are presented related to personal protective equipment (PPE). The live demonstrations of PPE allow each participant to actually learn the proper practices to follow and prevent loss of life during the hazards involved in such work environments. Attendee is provided a current edition of NFPA 70E as the companion document to the class presentation. The NFPA 70E is a recommended text for this class. It will be available at the ICC bookstore onsite.

2015 IFC Essentials — Session 21

CEU: 0.8

Instructor: Terrell Stripling



This seminar will introduce the application of the *International Fire Code*® (IFC®) administrative requirements, occupancy classification, general precautions against fire, emergency planning and preparedness, fire service features, interior finish, decorative materials and furnishings, fire protection systems, means of egress, and provide an introduction to hazardous materials. Activities and discussions will further enhance participant learning.

Combination Inspections of Commercial Structures — Session 22

CEU: 0.8

Instructor: Gil Rossmiller



Provides commercial inspectors with basic techniques and a better understanding of conducting inspections of small commercial buildings. The discussion will include preparation, presentation and inspection of the structural, plumbing, mechanical and electrical portions of a building. This course will provide the steps, tools and processes required to complete a comprehensive inspection of a structure. It will also increase your awareness of the necessary requirements to ensure code compliance of the structures built in your jurisdiction.

Building Areas, Mixed Occupancies and Fire Areas — Session 23

CEU: 0.8

Instructor: Steve Thomas



This seminar provides a comprehensive discussion of the major compartmentalization concepts of the *International Building Code*® (IBC®), focusing on those requirements that deal with building size, sprinkler options and mixed-use buildings. Fire-resistance-rated construction is also addressed. This class will include topics on allowable areas, area increases, unlimited area buildings, fire area concept and construction, incidental/accessory use areas and separated/nonseparated uses.

NFPA 25 Standard for the Inspection, Testing & Maintenance of Water-Based Fire Protection Systems — Session 24

CEU: 0.8

Instructor: Russ Leavitt



This seminar provides a comprehensive review of the 2017 edition of NFPA 25. The significant changes from the 2014 edition are identified along with the ongoing interpretations of how to apply the requirements of the standard. Attendees will participate in an in-depth discussion regarding the inspection and testing of wet and dry sprinkler systems, standpipe and hose systems, fire pumps and the associated valves used in these systems. Attendees will leave the seminar with a greater understanding of how to apply the requirements for all water-based systems. If you are a contractor, inspector, building owner or manager, AHJ, or engineer, this seminar is for you.

2018 UMC Code Changes — Session 25

CEU: 0.8

Instructor: IAPMO Instructor



Keep up-to-date on the *Uniform Mechanical Code*® (UMC®) by learning about the changes from the 2015 to the 2018 edition. The notable changes to the code will be discussed in-depth and in a way that makes the discussion meaningful to attendees. Each notable change will be shown so attendees can see exactly how the code changed. Further discussed will be why the code changed and what impact it will have on the code enforcement and installer communities.

Leadership IMPACT – Team Member Engagement — Session 26 — Half Day AM

CEU: 0.4

Instructor: Tim Schneider



Unlock half of your influence with team members with this learning program. Team members who are engaged will have more loyalty, work harder, produce higher quality and deliver outstanding customer service. Leaders with engaged teams and healthy work cultures experience much greater results and have better levels of personal job satisfaction. The return on investment for team member engagement is achieved by using the strategies of relationship building and depth, managing leadership tone and understanding team member motivating factors. Creating a healthy working culture and connecting team members to the purpose of the organization are provided as extra resources in this seminar.

Leadership IMPACT – Coaching — Session 27 — Half Day PM

CEU: 0.4

Instructor: Tim Schneider



At the heart of great leaders is a great coach. A person who can provide positive feedback easily, corrective feedback without alienating a team member and someone who uses coaching to release the rest of their influence with team members. Coaching, when done correctly and well, will dramatically improve workplace performance, team member engagement and unlock the potential of all team members. In addition to positive feedback and corrective feedback, this seminar presents skills associated with selecting team members, releasing team members when needed and providing teaching-type coaching.

Residential Electrical Calculations — Session 28 — Half Day AM

CEU: 0.4

Instructor: John England



This seminar is designed for residential electrical inspectors, and will take them from the basic calculation of volts * amp = watts to box fill, wire sizing, circuit loading, voltage drop and finish with sizing the service for a typical house and shed out back. The instructor will also give shortcuts that will help in the field and for plan review.

Roof Photovoltaics, Gardens, Reroofing and Other Considerations — Session 29 — Half Day PM

CEU: 0.4

Instructor: Mark Ennis



Attendees will learn and discuss the requirements of Chapter 15 of the *International Building Code*® (IBC®) associated with roof assemblies and rooftop structures. Specific topics will include roof system physical properties, fire classification and product identification. Further topic discussions include perimeter edge, ballast, aggregate, roof gardens, photovoltaics and reroofing. The scope of this seminar will be limited to low-slope roof systems.

IBC Occupancy-Based Requirements — Session 30

CEU: 0.8

Instructor: Greg Keith



This class is an interactive workshop that will demonstrate the system of determining those major nonstructural code requirements that are based on occupancy classification. Location on property requirements, to include exterior wall fire-resistance rating and opening protective requirements based on fire separation distance will be discussed in detail. Mixed occupancy design options for single- and multi-story applications will be demystified. Allowable area determination based on permitted frontage, sprinkler and separate building increases will be stressed. Allowable height determination procedures will also be addressed. Comprehensive practical exercises will reinforce the technical relationships between the various occupancy-based design requirements. Applicable changes to the 2018 edition of the *International Building Code*® (IBC®) will be discussed in context with discussed provisions.

Case Preparation and Testimony — Session 31 — Half Day AM

CEU: 0.4

Instructor: Doug Leeper



Your case presentation will be no better than your case preparation. Regardless of the type of violations you are addressing or the type of enforcement action you are pursuing – criminal, civil or administrative – your testimony is only as good as the documentation that went before it. This seminar focuses on investigative and documentation skills and preparing for detailed testimony.

Multi-Family Registrations/Inspections and Sweeps — Session 32 — Half Day PM

CEU: 0.4

Instructor: Doug Leeper



Oftentimes, absentee landlords can allow, if not contribute to, the decline of an apartment complex and entire neighborhood. Many tenants are afraid to report substandard conditions out of fear of retaliation. These two issues together will have a disastrous impact if not addressed. This seminar will review pro-active multi-family rental housing registration and inspection programs. We will discuss industry best practices, pros and cons of programs, how to “sell” programs and implementation of new programs and methods of managing and reporting results.

2018 IBC Exterior Wall and Opening Protection — Session 33 — Half Day AM

CEU: 0.4

Instructor: George Mann



This seminar addresses the various provisions in the *International Building Code*® (IBC®) dealing with exterior wall design and construction. Although such walls are primarily regulated due to their location on the lot, many other additional requirements are set forth in the code. Exterior bearing walls are regulated by Table 601, while the use of exterior exit stairways, exit courts and exterior areas of assisted rescue will also typically mandate some degree of fire resistance.

2018 IBC Use of Fire and Smoke Separations — Session 34 — Half Day PM

CEU: 0.4

Instructor: George Mann



This seminar identifies the many and varied conditions identified in the *International Building Code*® (IBC®) where fire and/or smoke separations are required. The discussion will focus on those required locations where fire-resistance-rated wall and horizontal assemblies, as well as smoke-resistive wall and horizontal assemblies, are either required by the 2018 IBC or utilized by design professionals as alternative approaches to code compliance. Such locations include the selective or mandated use of fire walls, fire barriers, fire partitions, smoke barriers, horizontal assemblies and other separation elements.

The Complete Permit Technician – Day 1 — Session 35

CEU: 1.6

Instructor: Steve Burger,
CBO, LEED AP

This two-day course is intended to provide essential information in the areas of code administration and history, legal aspects, customer service, basic plan review, inspection process, zoning requirements, permit fee calculations, basic occupancy and construction types, basic means of egress and dealing with difficult customers. The course is also beneficial for preparing for the Permit Technician Certification Exam.

Required Materials: Calculator, 2015 IBC, 2015 IZC, *Legal Aspects of Code Administration* and *Basic Code Enforcement*.

Legal Aspects of Code Administration — Session 36

CEU: 0.8

Instructor: Bob Church



This course provides code officials with guidelines for administering the legal aspects of codes with regard to enforcement, prosecution and maintenance. Participants will discuss historical consequences of ignoring the regulation of building construction and materials, and learn how to interpret and apply local government, state and federal laws pertaining to the administration and enforcement of a building code. Participants will learn to define and apply concepts that are legally important to the administration and enforcement of a building code and establish or document rules of procedure used before a board of building code appeals. By using the guidelines presented in the course, participants will learn how to effectively testify in a court of law.

SESSION DESCRIPTIONS | WEDNESDAY, MARCH 21

2015 IRC Essentials — Session 37

CEU: 0.8

Instructor: Steve Van Note



This seminar examines basic concepts of the 2015 *International Residential Code*® (IRC®) that provide a basis for the correct utilization of the code. A clear understanding of the identified requirements allows the code user to apply the IRC in specific situations and helps to build an understanding of the intent of the code when asked to make a judgment on code compliance. This course will help the code user to correctly locate code requirements, provide a basis for the correct use and application of the code and begin to develop a procedure for applying the code.

2018 IBC Update — Session 38 — Half Day AM

CEU: 0.4

Instructor: Doug Thornburg



The *International Building Code*® (IBC®) continues to establish minimum regulations for building systems using prescriptive and performance-related provisions. It is founded on principles that make use of new materials and new building designs. This course will identify important changes in the IBC from the 2015 to 2018 edition. Participants will receive an overview of the most important code changes, as well as those changes that will most impact their use of the code when they adopt the 2018 IBC.

***This seminar is an abridged version of the full-day 2018 IBC Significant Changes seminar. See Sessions #18 and #55 for details.**

2018 IRC Update — Session 39 — Half Day PM

CEU: 0.4

Instructor: John Gibson



It is important to have an up-to-date residential construction code addressing the design and construction of one- and two-family dwellings and townhouses to protect the health and safety of the public, as well as provide affordable housing. There have been key changes made to the *International Residential Code*® (IRC®) since the 2015 edition. This seminar highlights many of the differences between the 2015 and 2018 editions. Participants will receive an overview of the most important code changes, as well as those changes that will most impact their use of the code when they adopt the 2018 IRC.

***This seminar is an abridged version of the full-day 2018 IRC Significant Changes seminar. See Sessions #54 and #75 for details.**

Commercial Inspections — Session 40**CEU:** 0.8**Instructor:** IAEI Instructor

This class is focused on inspections for commercial buildings such as hospitals, office buildings, high-rise construction, casinos, etc. Topics discussed will include working clearances, overcurrent protection, feeder sizing, grounding and bonding, ground fault protection of equipment, selective coordination and emergency systems. Photos and diagrams will be used to illustrate key inspection items.

2018 IFC Significant Changes — Session 41**CEU:** 0.8**Instructor:** Kevin Scott

The purpose of *Significant Changes to the International Fire Code®*, 2018 Edition is to familiarize fire officials, building officials, plans examiners, fire inspectors, design professionals, and others with the many important changes in the 2018 *International Fire Code®* (IFC®). This seminar will assist code users in identifying the specific code changes that have occurred and, more important, assist them in understanding the reasoning behind the changes. It is also a valuable resource for jurisdictions in their code-adoption process.

Overview of Accessibility Requirements — Session 42**CEU:** 0.8**Instructor:** Bill Clayton

This class provides basic concepts of disabled accessible design and construction using the *International Building Code®* (IBC®) and ICC/ANSI A117.1. The first portion of the class will discuss when accessible features are required by the IBC. The remainder of the class will be devoted to how a building and its site is made accessible by the A117.1 standard. This class is intended for the code user who is either new to accessible design or is in need of a refresher on the ever-changing requirements.

IRC Residential Inspections — Session 43**CEU:** 0.8**Instructor:** Gil Rossmiller

This seminar provides new residential inspectors with basic techniques and an understanding of conducting inspections of one- and two-family dwellings and townhouses. The discussion will include preparation, presentation and inspections of the building, plumbing, mechanical and electrical portions of a building.

NFPA 20 Fire Pumps — Session 44**CEU:** 0.8**Instructor:** Russ Leavitt

This seminar focuses on the installation of stationary fire pumps and the requirements of the 2016 edition of NFPA 20. Pump basics are reviewed along with an extensive discussion regarding the sizing of fire pumps. Electric motor and diesel engine drivers are examined in depth along with their associated controllers. The installation requirements for fire pumps are also reviewed. Upon completion of this course, participants should be able to: explain the organization of NFPA 20 and the basic pump principles; locate and apply the installation requirements for stationary fire pumps, drivers, and controllers; and size fire pumps for the most economical application(s). This seminar benefits anyone who specifies, installs or inspects stationary fire pumps.

2018 Plumbing Code Workshop — Session 45 — Half Day AM

CEU: 0.4

Instructor: IAPMO Instructor



Apply your code knowledge and expertise in this dynamic, hands-on workshop. Attendees will examine drawings of plumbing systems and installations for code violations in a cooperative and collaborative environment with their peers. Each drawing is designed to challenge attendees on parts of the code that are frequently misunderstood or in violation. Attendees will work in groups during the workshop exercise and their findings, as well as those presented by the instructor, will be shared with the rest of the attendees for a robust learning experience.

Required Materials: 2018 UPC.

2018 Mechanical Code Workshop — Session 46 — Half Day PM

CEU: 0.4

Instructor: IAPMO Instructor



Apply your code knowledge and expertise in this dynamic, hands-on workshop. Attendees will examine drawings of plumbing systems and installations for code violations in a cooperative and collaborative environment with their peers. Each drawing is designed to challenge attendees on parts of the code that are frequently misunderstood or in frequent violation. Attendees will work in groups during the workshop exercise and their findings, as well as those presented by the instructor, will be shared with the rest of the attendees for a robust learning experience. **Required Materials:** 2018 UMC.

Leadership – IMPACT – Self-Mastery — Session 47

CEU: 0.8

Instructor: Tim Schneider



“No one is fit to command another that cannot command himself” said William Penn and he could not be more right. The ability to manage and master your own behaviors will have an enormous impact on your ability to lead and maintain credibility with your team. Team members look to their leaders for calm, controlled and hopeful responses, especially during tough times. This seminar will dive deeply into self-awareness, understanding the real and authentic you, uncovering blind spots in your behavior, looking at reaction hot buttons and noting core emotional composition. From there, the power comes with enhanced confidence, optimism, resilience, self-control and the ability to encourage others. Leadership IMPACT-Self-Mastery utilizes the powerful DiSC assessment to assist in discovering blind spots and other behavioral traits.

Principles of Materials and Structures — Session 48

CEU: 0.8

Instructor: Sandra Hyde



This seminar deals with properties, applications and analysis of typical yet important building construction materials. Residential and commercial inspectors will discover background (how materials are made or obtained), their physical and mechanical properties and how they are used in building construction. This seminar is also useful for engineers and architects looking for a review of the properties of structural materials. The seminar covers unique characteristics of wood, steel, concrete and masonry. Knowledge of material behavior provides understanding of the importance associated with selection and use for a particular building. Soil classes will also be examined with an opportunity to sample tests to determine the difference between soil types.

IBC Types of Construction Options — Session 49

CEU: 0.8

Instructor: Greg Keith



This class is an interactive workshop that will demonstrate the system for the determination of construction requirements based on type of construction. The differences will be discussed between the various types of construction categories in the *International Building Code*® (IBC®). Fire resistance, materials (noncombustible and combustible) and opening protection requirements will be emphasized. General high-rise and smoke control requirements will be discussed. Techniques as to how to select the proper type of construction for new construction and how to identify the type of construction for existing buildings will be stressed. Applicable changes to the 2018 IBC will be discussed in context with discussed provisions.

Management of Property Maintenance — Session 50**CEU:** 0.8**Instructor:** Daniel Peterson

Managing property maintenance operations is like an artist putting paint to canvas. Just as there are many colors of paint, there are many functions, demands and priorities that make up code enforcement. The processes can be very messy, but when done right, very effective. No two communities are alike, as are no two paintings. Through topical and open discussion, small-group case study and problem-solving activities, participants will learn practical ways to improve their effectiveness as managers and change agents to enhance the beauty within their communities.

Fire-Resistance-Rated Construction — Session 51**CEU:** 0.8**Instructor:** Richard Walke

The 2018 *International Building Code*® (IBC®) requires fire-resistance ratings of building elements to be determined based on the procedures set forth in ASTM E119 or UL 263. Learn more about the code requirements for fire-resistance-rated construction, how assemblies are tested to these standards, and the methods of confirming code compliance including the use of the UL Fire Resistance Directory and UL Product Spec. Also learn how to make adjustments to the published designs without affecting the hourly rating.

The Complete Permit Technician — Day 2 — Session 35**CEU:** 1.6**Instructor:** Steve Burger,
CBO, LEED AP

Day 2 of a two-day course that begins on Tuesday, 3/20. This course is intended to provide essential information in the areas of code administration and history, legal aspects, customer service, basic plan review, inspection process, zoning requirements, permit fee calculations, basic occupancy and construction types, basic means of egress and dealing with difficult customers. The course is also beneficial for preparing for the Permit Technician Certification Exam. **Required Materials:** Calculator, 2015 IBC, 2015 IZC, *Legal Aspects of Code Administration* and *Basic Code Enforcement*.

Report Writing for Code Officials — Session 52 — Half Day AM**CEU:** 0.4**Instructor:** Tim Ryan

Effective writing is vital to your career as an inspector, and your writing skills can help advance your career. Notices of violation, letters and reports are public documents that may be read by supervisors, attorneys, judges, citizens, design professionals, contractors and reporters. What you write can become the basis for appeal hearings and criminal and civil trials but also could prevent cases from going to court. Your inspection reports and notices of violation will compel a property owner to take action. This seminar provides code professionals of all levels with the knowledge and skills to effectively write reports and violation notices. Participants will learn the importance of writing a good report, writing professional sentences and choosing the correct terminology to use. Through examples and practice opportunities, participants will become more skilled at writing and editing their work.

Ethics in Public Life — Session 53 — Half Day PM**CEU:** 0.4**Instructor:** Tim Ryan

This seminar presents the historical development of ethical theory and its practical application for building officials. The consequences of poor ethical decisions will be discussed, with an emphasis on providing participants with an opportunity to develop their own personal code of ethics, which they can then implement effectively, bringing their professional behavior into accordance with this ethical code when faced with solving ethical problems.

Sessions continue on page 16.

Class Topics	Monday March 19	Tuesday March 20	Wednesday March 21	Thursday March 22	Friday March 23
I-CODES	2015 IBC Essentials Session 1 FULL DAY	2018 IBC Significant Changes Session 18 FULL DAY	2015 IRC Essentials Session 37 FULL DAY	2018 IRC Significant Changes Session 54 FULL DAY	2018 IBC Mixed Occupancies AM Session 73
					2018 IBC Special Building Types and Features PM Session 74
ADDITIONAL I-CODES	2018 IBC Means of Egress Session 2 FULL DAY	2018 IRC Building Safety Features Session 19 FULL DAY	2018 IBC Update AM Session 38	2018 IBC Significant Changes Session 55 FULL DAY	2018 IRC Significant Changes Session 75 FULL DAY
			2018 IRC Update PM Session 39		
ELECTRICAL	Electrical Inspections Session 3 FULL DAY	NFPA 70E Session 20 FULL DAY	Commercial Inspections Session 40 FULL DAY	Analysis of Changes 2017 NEC Session 56 FULL DAY	Mixed-Use Building Load Calculations Session 76 FULL DAY
BUILDING & FIRE SAFETY PROTECTION & PRINCIPLES	2018 IBC Fire and Life Safety Principles Session 4 FULL DAY	2015 IFC Essentials Session 21 FULL DAY	2018 IFC Significant Changes Session 41 FULL DAY	Energy Storage Systems AM Session 57	2018 IBC and IFC Fire Protection Systems Session 77 FULL DAY
				Fenestration/Curtain Wall Requirements in the IBC PM Session 58	
BUILDING PLAN REVIEW	Fire-Resistance-Rated Construction Session 5 FULL DAY	Combination Inspections of Commercial Structures Session 22 FULL DAY	Overview of Accessibility Requirements Session 42 FULL DAY	IBC Commercial Plan Review Session 59 FULL DAY	Alterations, Tenant Improvements and Renovations AM Session 78
					Additions and Change of Occupancy PM Session 79
ADDITIONAL BUILDING PLAN REVIEW & INSPECTIONS	IRC Plan Review Session 6 FULL DAY	Building Areas, Mixed Occupancies and Fire Areas Session 23 FULL DAY	IRC Residential Inspections Session 43 FULL DAY	IBC Means of Egress Session 60 FULL DAY	Special Inspections for Code Officials Session 80 FULL DAY
FIRE SPRINKLERS, PUMPS AND ALARMS	NFPA 13 Plan Review Session 7 FULL DAY	NFPA 25 Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems Session 24 FULL DAY	NFPA 20 Fire Pumps Session 44 FULL DAY	Fire Alarm Session 61 FULL DAY	Two-Way Communication Systems Session 81 FULL DAY
PLUMBING & MECHANICAL	2018 UPC Code Changes Session 8 FULL DAY	2018 UMC Code Changes Session 25 FULL DAY	2018 Plumbing Code Workshop AM Session 45	2018 DWV and Roof Drain Sizing Workshop AM Session 62	Protecting the Potable Water Supply from Modern Threats AM Session 82
			2018 Mechanical Code Workshop PM Session 46	Combustion Air, HVAC Venting, Grease Ducts, and Hood Installations PM Session 63	Energy Code Requirements for Plumbing and Mechanical Systems PM Session 83

Class Topics	Monday March 19	Tuesday March 20	Wednesday March 21	Thursday March 22	Friday March 23
PERSONAL DEVELOPMENT	Leadership IMPACT- Communications Session 9 FULL DAY	Leadership IMPACT- Team Member Engagement AM Session 26	Leadership IMPACT- Self-Mastery Session 47 FULL DAY	Leadership SUCCESS-Decision Making and Ethics AM Session 64	Leadership TRANSFORMATION- Innovation and Change AM Session 84
		Leadership IMPACT- Coaching PM Session 27		Leadership SUCCESS-Personal Power and Relationships PM Session 65	Leadership TRANSFORMATION- Success Skills for Leaders PM Session 85
ARCHITECTURAL, DESIGN, ENGINEERING & ADVANCED INSPECTIONS	Structural Loads and Load Paths AM Session 10	Residential Electrical Calculations AM Session 28	Principles of Materials and Structures Session 48 FULL DAY	2018 IBC and ASCE 7-16 Structural Changes Session 66 FULL DAY	2018 IRC Accessory Structures, Decks, Carports and Patio Covers AM Session 86
	Reinforcing Steel Inspection PM Session 11	Roof Photovoltaics, Gardens, Reroofing and Other Considerations PM Session 29			2018 IRC Structural Concerns in Residential Construction PM Session 87
ADVANCED IBC TOPICS	IBC Practical Occupancy Classification Session 12 FULL DAY	IBC Occupancy-Based Requirements Session 30 FULL DAY	IBC Types of Construction Options Session 49 FULL DAY	IBC Prescriptive Means of Egress Components Session 67 FULL DAY	IBC Performance- Based Means of Egress Design Session 88 FULL DAY
CODE ENFORCEMENT	Ins and Outs of Vacant Property Registration Ordinances Session 13 FULL DAY	Case Preparation and Testimony AM Session 31	Management of Property Maintenance Session 50 FULL DAY	Philosophy and Practice of Code Enforcement AM Session 68	Aerial Technology (Drones) Solutions in AEC and Government AM Session 89
		Multi-Family Registrations/Inspe- ctions and Sweeps PM Session 32		Administrative Citation vs Criminal Prosecution PM Session 69	Squatters PM Session 90
BUILDING SPECIALTIES	A117.1-2017 Significant Changes AM Session 14	2018 IBC Exterior Wall and Opening Protection AM Session 33	Fire-Resistance Rated Construction Session 51 FULL DAY	Fire Resistance, Opening Protection and Five Walls Session 70 FULL DAY	Dampers in Fire- Resistance-Rated Construction AM Session 91
	2018 IEBC Accessibility PM Session 15	2018 IBC Use of Fire and Smoke Separations PM Session 34			Fire Doors and Fire Windows PM Session 92
CURRENT INTEREST TOPICS	Inspector Skills Session 16 FULL DAY	The Complete Permit Technician Session 35 TWO DAYS		2018 IBC and IFC Assembly Spaces Session 71 FULL DAY	Marijuana and the Building Code Session 93 FULL DAY
THE BUILDING OFFICIAL	So You Want To Be a Building Official Session 17 FULL DAY	Legal Aspects of Code Administration Session 36 FULL DAY	Report Writing for Code Officials AM Session 52	Increasing the Credibility of the Code Official Session 72 FULL DAY	Building Depart- ment Financial Management AM Session 94
			Ethics in Public Life PM Session 53		Building Depart- ment Personnel Management PM Session 95

2018 IRC Significant Changes — Session 54

CEU: 0.8

Instructor: John Gibson



This seminar reviews and analyzes selected significant changes from the 2015 to the 2018 edition of the *International Residential Code®* (IRC®). It familiarizes building officials, fire officials, plans examiners, inspectors and design professionals with many of these significant changes, and also assists code users in identifying specific code changes that have occurred and understanding the reason behind them. Finally, it focuses on those code changes selected due to their frequency of application, special significance or change in application. This course uses the *Significant Changes to the International Residential Code®, 2018 Edition*.

****This seminar is being repeated throughout the week. See Session #75 for details.***

2018 IBC Significant Changes — Session 55

CEU: 0.8

Instructor: Terrell Stripling



This seminar reviews and analyzes selected significant changes from the 2015 to the 2018 edition of the *International Building Code®* (IBC®). It familiarizes building officials, fire officials, plans examiners, inspectors and design professionals with many of these significant changes, and also assists code users in identifying specific code changes that have occurred and understanding the reason behind them. Finally, it focuses on those code changes selected due to their frequency of application, special significance or change in application. This course uses the *Significant Changes to the International Building Code®, 2018 Edition*.

****This seminar is being repeated throughout the week. See Session #18 for details.***

Analysis of Changes 2017 NEC — Session 56

CEU: 0.8

Instructors: Christel Hunter & Randy Hunter

Book Fee: \$78.00



Learn about the most crucial *National Electrical Code®* (NEC®) changes that impact your work! IAEI and NFPA, the two major authorities on code interpretation and enforcement, present these vital changes in an easy-to-use format filled with valuable advice from the experts. This extensive and popular program analyzes the major changes to the 2017 NEC. The cost of this seminar includes a copy of the IAEI *Analysis of Changes*. The full-color book has clear illustrations, photos and text that explain the changes and their impact. Members of the 19 code-making panels contributed to the development of this authoritative text.

Energy Storage Systems – Fire Safety Concepts in the 2018 IFC, IBC and IRC — Session 57 — Half Day AM

CEU: 0.4

Instructor: Richard Walke



Energy storage systems are showing up in ever-increasing numbers, which creates challenges for fire and building officials who must address a new generation of fire safety concerns. These systems include modern stationary battery systems, electrical capacitor systems and other technologies. This seminar provides an overview of these systems and discusses requirements that will appear in the 2018 *International Fire Code®* (IFC®), *International Building Code®* (IBC®) and *International Residential Code®* (IRC®). It also includes some exercises for applying the new code requirements to representative installations. This interactive session will keep participants ahead of the curve on upcoming code requirements.

Fenestration/Curtain Wall Requirements in the International Building Code — Session 58 — Half Day PM

CEU: 0.4

Instructor: Richard Walke

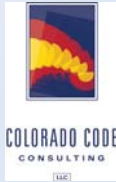


Chapter 14 of the 2015 *International Building Code®* (IBC®) contains requirements for fenestration; the weather protection of the exterior building envelop. This seminar provides an overview of these requirements. Attendees will gain an understanding of the key IBC requirements, the specified performance testing standards and methods for ensuring compliance of curtain walls, windows, doors and storefronts.

IBC Commercial Plan Review — Session 59

CEU: 0.8

Instructor: Bill Clayton

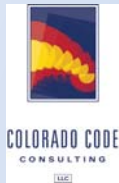


Explains the process of conducting a plan review for small/medium-sized commercial projects. It will cover the building, plumbing, mechanical and electrical requirements for commercial projects. The first day will focus on the building code portion of reviews based on the *International Building Code*® (IBC®). The second day will focus on the plumbing, mechanical and electrical portion of the review. The class will provide students with formats, process and understanding of how to conduct a commercial plan review.

IBC Means of Egress — Session 60

CEU: 0.8

Instructor: Steve Thomas



This class is a basic overview of the means of egress requirements included in Chapter 10 of the *International Building Code*® (IBC®). The presentation will include detailed discussions on the design of the means of egress in buildings. Subjects included in the class are the three parts of the means of egress including occupant loads, egress width, number of exits, travel distance, common path of egress travel and exit enclosures. Practical examples will be used to illustrate code requirements.

Fire Alarm — Session 61

CEU: 0.8

Instructor: Sagiv Weiss-Ishai



The new 2016 Edition of NFPA 72, *National Fire Alarm and Signaling Code*, was published by NFPA in October 2015 and is not yet effective in many states. Many revisions to the previous NFPA-72 2013 edition have been made that will affect the design, installation and inspection procedures of new fire alarm systems. In this class we will identify, discuss and clarify these new changes and explain how they will affect new fire alarm systems provided per the 2016 edition of NFPA 72.

2018 DWV and Roof Drain Sizing Workshop — Session 62 — Half Day AM

CEU: 0.4

Instructor: IAPMO Instructor



This seminar provides participants with how-to instruction on properly sizing drain, waste and venting and roof drainage systems and their components. Participants will have the opportunity to practice what they learn in this hands-on experience. Proper roof drainage does not just plan for the average rainy day it must also be designed and installed to manage historical rainfalls. The 2015 *Uniform Plumbing Code*® (UPC®) saw some changes and new language with regards to roof drainage and roof drains themselves that were carried over to the 2018 edition. In this presentation, the general provisions regarding roof drainage will be discussed with special attention being paid to the new requirements. Upon completing this seminar, participants will be better able to identify the appropriate sizing requirements in the code as well as properly determine the correct pipe sizing for the systems they encounter in the field.

2018 UMC Special Topics: Combustion Air, HVAC Venting, Grease Ducts and Hood Installations — Session 63 — Half Day PM

CEU: 0.4

Instructor: IAPMO Instructor



Proper combustion air and venting installation and maintenance are essential in ensuring appliances function properly while maintaining the health and safety of the building occupants. This seminar will discuss the 2015 *Uniform Mechanical Code*® (UMC®) requirements for combustion air and HVAC venting with this focus in mind. Recently, changes have occurred to the CFM calculations for commercial kitchen hoods. In this seminar, attendees will be presented with the background and future impact of these changes and will be able to better understand and correctly apply the requirements. Health, fire, building, electrical, plumbing and mechanical codes all come together in commercial kitchens. Join us to learn how to apply a greater level of safety and efficiency established through the UMC with regards to grease duct and hood installations.

Leadership SUCCESS – Decision Making and Ethics — Session 64 — Half Day AM**CEU:** 0.4**Instructor:** Tim Schneider

A leader's decisions become a lasting part of his or her legacy. Making the right decision, in the right time frame, with the correct information and involving the right people is one key focus of this program. The delicate balance between rash or too quick decisions and overly deliberative decisions is the starting point, followed by examining decision-making levels and who should be making those decisions. Understanding unintended consequences and applying some basic critical thinking will improve decision quality tremendously. As important as decisions are, making sure those decisions and other choices maintain ethical congruence is equally important. This seminar will provide participants with the tools to keep integrity always, refer to an organization's ethical values and avoid pitfalls associated with personal morality and beliefs. When ethical values are strong, a leader maintains the highest credibility with her or his team and can continue to successfully lead.

Leadership SUCCESS – Personal Power and Relationships — Session 65 — Half Day PM**CEU:** 0.4**Instructor:** Tim Schneider

Although the word "power" has certain stigma attached, leaders need power to operate and to lead. This seminar will provide the skills to manage the types of leadership power and create an effective balance between the five power types for a more successful connection with team members and more sustained organizational results. Relationship power is the most critical of the power types and building networks of influence using relationship techniques will be addressed. Additional tools for Leadership Success-Personal Power and Relationships include seeing the big picture or global perspective, appreciation of workplace diversity and creating some charismatic charm for your role as a leader. Because this leadership competency is about the outward you, key skills related to teamwork, empathy and dealing successfully with conflict will also be presented.

2018 IBC & ASCE 7-16 Structural Changes — Session 66**CEU:** 0.8**Instructor:** Chris Kimball, SE, PE, MCP, CBO

Many of the structural code provisions will change with the adoption of the 2018 *International Building Code*® (IBC®). Most of these changes occur to structural standards that are referenced by the IBC, and most significantly in the adoption of the 2016 version of ASCE 7. Some of the changes that will be discussed include modified live loads, increased roof components and cladding loads, increased seismic ground motions and changes to site coefficients, new regional snow load data, new tsunami design provisions, new balcony provisions and updated rain duration provisions. This class will help design professionals and enforcement personnel to understand how structural design requirements will be changing with the adoption of the 2018 IBC and will help them to stay up-to-date with the new structural provisions of the building code.

IBC Prescriptive Means of Egress Components — Session 67**CEU:** 0.8**Instructor:** Greg Keith

An interactive workshop that will discuss in detail the prescriptive construction requirements for the various means of egress components intended to support a given means of egress design. All means of egress components from doors to horizontal exits will be covered. How various exit access components, exit components and exit discharge components are used to satisfy certain means of egress design requirements will be discussed. Applicable changes to the 2018 *International Building Code*® (IBC®) will be discussed in context with discussed provisions.

Philosophy and Practice of Code Enforcement — Session 68 — Half Day AM

CEU: 0.4

Instructor: Eugene Alper



Although nominally, code enforcement appeared in the 1970s, in this seminar we will explore its history going as far back as Colonial times. We will search for the ideas that have driven its development and ask ourselves if those ideas have always been the same or, perhaps, there is something unique about what we code enforcement officers do today. Whether you are an aspiring or seasoned professional, this class will help you to see a bigger picture, challenge you intellectually, and make you proud.

Administrative Citation vs Criminal Prosecution — Session 69 — Half Day PM

CEU: 0.4

Instructor: Eugene Alper



This seminar will familiarize you with the advantages and intricacies of the administrative citation and convert those who still do not use them into true believers. You will learn how to change your code, implement the administrative remedies program, bring financial rewards to your city, and—most importantly—improve your compliance rates! Abandon the beast of criminal prosecution for good and live happily with the beauty of administrative citations.

Fire Resistance, Opening Protection and Five Walls — Session 70

CEU: 0.8

Instructor: David Dodge



This seminar reviews fundamental principles found in Chapters 3 thru 10 of the *International Building Code*® (IBC®) as they pertain to the use of the five walls, their openings and opening protectives. Based on the 2018 IBC as far as references are concerned, regardless of the current IBC edition a jurisdiction may be enforcing, this seminar addresses guideline fundamentals and has proven to be a very insightful and helpful study of core code issues. These core issues are: definition of the five walls, elevators and elevator lobbies, exit access separation, vertical opening separation, occupancy separation, area separation, corridor separation, smoke compartmentation and the use of smoke barriers.

2018 IBC and IFC Assembly Spaces — Session 71

CEU: 0.8

Instructor: Jay Woodward



This seminar will address the critical requirements for places of assembly contained in the 2018 *International Building Code*® (IBC®) and 2018 *International Fire Code*® (IFC®). Topics will include the various Group A occupancies as well as relationships with business and educational occupancies. Utilizing examples and activities, participants will apply the IFC and IBC requirements for stages, platforms, bleachers, grandstands, special assembly provisions and IFC perspectives on fire watches, open flames, combustibles and finishes.

Increasing the Credibility of the Code Official — Session 72

CEU: 0.8

Instructor: Tim Ryan



Success as a code enforcement professional depends on credibility. Credibility and trust are necessary for effective relationships with the public. This seminar examines the issue of credibility as it relates to property owners, occupants, contractors, construction professionals and the media. Four areas of credibility are explored, including personal interaction, professional presentation, technical competence and work process.

2018 IBC Mixed Occupancies — Session 73 — Half Day AM**CEU:** 0.4**Instructor:** George Mann

Based on the provisions of Section 508 of the *International Building Code*® (IBC®), this seminar addresses those special requirements applicable to buildings containing two or more occupancy classifications. The three mixed-occupancy options are presented along with examples and exercises that illustrate the proper application of the provisions.

2018 IBC Special Building Types and Features — Session 74 — Half Day PM**CEU:** 0.4**Instructor:** George Mann

Based on selected provisions from Chapter 4 of the *International Building Code*® (IBC®), this seminar focuses on several special building types and features. High-rise buildings, underground buildings and parking garages are specialized buildings that have their own unique considerations. Atriums, stages and platforms are building features that are evaluated in a special manner due to the hazards involved. The special detailed requirements and allowances set forth throughout Chapter 4 address a variety of uses and occupancies. Specific topics include: high-rise buildings, underground buildings, covered and open mall buildings, parking garages, aircraft hangars, atriums and stages and platforms.

2018 IRC Significant Changes — Session 75**CEU:** 0.8**Instructor:** Steve Van Note

This seminar reviews and analyzes selected significant changes from the 2015 to the 2018 edition of the *International Residential Code*® (IRC®). It familiarizes building officials, fire officials, plans examiners, inspectors and design professionals with many of the significant changes in the 2018 IRC. It also assists code users in identifying the specific code changes that have occurred and understanding the reason behind the change. Finally, it focuses on those code changes selected due to their frequency of application, special significance or change in application. This course uses the *Significant Changes to the International Residential Code*®, 2018 edition.

****This seminar is being repeated throughout the week. See Session #54 for details.***

Mixed-Use Building Load Calculations — Session 76**CEU:** 0.8**Instructors:** Christel Hunter & Randy Hunter

This interactive seminar is designed to provide a strong foundation of electrical knowledge for engineers, electricians, and inspectors whose work requires using the 2017 edition of the *National Electrical Code*® (NEC®) to locate, interpret, and apply requirements for electrical systems. Topics include a brief overview of the structure of the NEC, load calculations for multiple occupancy types, basic plan review, overcurrent protection and feeder sizing, and more. A basic set of project plans including residential, retail, and office space will be provided that will be used for all calculations. This class will be based on the 2017 *National Electrical Code*.

2018 IBC and IFC Fire Protection Systems — Session 77**CEU:** 0.8**Instructor:** Kevin Scott

This seminar is designed to guide participants through the 2018 *International Fire Code*® (IFC®) requirements related to fire protection systems (Chapter 9). These requirements include suppression systems, standpipe systems, automatic fire alarm systems, automatic detection systems and additional fire protection assemblies.

Alterations, Tenant Improvements and Renovations — Session 78 — Half Day AM

CEU: 0.4

Instructor: Bill Clayton



Alterations are the most common type of work done by the building department. This seminar will discuss the different options available for dealing with these types of projects. Subjects based in the 2018 *International Existing Building Code*® (IEBC®) will include both prescriptive and work area options. Accessibility requirements for alterations will also be provided.

Additions and Change of Occupancy — Session 79 — Half Day PM

CEU: 0.4

Instructor: Bill Clayton

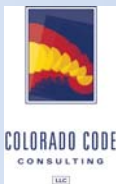


This seminar will provide the requirements of the 2018 *International Existing Building Code*® (IEBC®) for additions and change of occupancy. The class will include both the prescriptive and work area options available in the code. Subjects will include change of use, accessibility and other areas in dealing with these types of projects.

Special Inspections for Code Officials — Session 80

CEU: 0.8

Instructor: Gill Rossmiller



This class will discuss the special inspection requirements of Chapter 17 of the *International Building Code*® (IBC®). The focus of discussion will be on when special inspections are required and how plans examiners can determine compliance with the code. The class will also provide a basic understanding of what special inspections include, so that an inspector can determine whether or not the inspection is being conducted correctly.

Two-Way Communication Systems — Session 81

CEU: 0.8

Instructor: Sagiv Weiss-Ishai



Code requirements for the installation and performance of one-way and two-way Emergency Communication Systems (ECS) are specified in NFPA 72 Chapter 24. This class will focus on specific code requirements for both wired and wireless in-building two-way emergency communication systems, such as radio enhancement systems, areas of refuge, elevator landings and stairway communication systems. These systems are required by building and fire codes such as *International Building Code*® (IBC®), *International Fire Code*® (IFC®) and NFPA 5000 and are installed and perform per NFPA standards. This class will discuss specific code requirements from the AHJ's enforcement perspective. Associated terms such as pathway survivability levels (NFPA 72 Chapter 12), supervision, and intelligibility, and examples from actual permit plans, will be presented and discussed.

Protecting the Potable Water Supply from Modern Threats — Session 82 — Half Day AM

CEU: 0.4

Instructor: IAPMO Instructor



Recent events in the news indicate that the potable water supply that most people take for granted is vulnerable and needs to be vigilantly protected. The water crisis in Flint, MI, has received a large amount of media attention detailing the dangers and hardships that residents of that town have been facing. This seminar will address how this potable water disaster happened, how it could have been prevented, the plumbing and political issues that contributed to it, and how you can help make sure it does not happen in your area. It has become generally accepted that water systems and their customers are vulnerable to terrorist attacks. There are a wide range of vulnerabilities associated with municipal water systems that can easily be damaged or sabotaged through physical destruction, cyber-attack or control, or through the introduction of contamination. We will review how to identify and protect our potable water supplies.

Energy Code Requirements for Plumbing and Mechanical Systems — Session 83 — Half Day PM

CEU: 0.4

Instructor: IAPMO Instructor



Federal and state-adopted energy conservation codes have a common goal of both conserving energy resources now and reducing utility costs during the life of the building. This seminar will explore the common techniques and differences in how the 2015 *Uniform Mechanical Code*® (UMC®) and *Uniform Plumbing Code*® (UPC®) accomplish this same goal. The relationship between the UMC and UPC and the provisions of energy codes will be examined as well as some of the common themes and requirements aimed at energy conservation.

Leadership TRANSFORMATION – Innovation and Change — Session 84 — Half Day AM

CEU: 0.4

Instructor: Tim Schneider



We have more memory and storage in our phones compared to the first computers we owned. Drones deliver packages to our doorstep. Human organs are being grown in a laboratory and you can't give away CDs, DVDs or VHS tapes at a garage sale. Change and innovation are everywhere and successful leaders embrace change and stimulate innovation; both personally and with their team. This seminar provides powerful tools to reduce the loss of productivity associated with any change event, build partnerships with those affected by change and work to condition their team and selves to embrace change. Leadership TRANSFORMATION-Innovation and Change also presents the skills needed to become more innovative, creative and produce sustained and impacting change in the working environment.

Leadership TRANSFORMATION – Success Skills for Leaders — Session 85 — Half Day PM

CEU: 0.4

Instructor: Tim Schneider



Day-to-day operational reality for leaders is challenging. To effectively lead, a set of personal skills is needed to enhance efficiency, take care of self and deal with the difficult people that pop up. Leadership TRANSFORMATION-Success Skills for Leaders provides the personal skill set needed to navigate successfully and thrive in the modern working environment. Beginning with the key elements of time management including prioritizing, time/task blocking, reducing time parasites and scheduling, this seminar will enhance your personal productivity immediately. Stress management tools follow that help you cope and better understand the stress and from where it originates. The final set of skills will help you diffuse and win over difficult people. The Aegis Learning model of Listen, Validate, Respond will help you with those prickly team members, customers and even family.

2018 IRC Accessory Structures, Decks, Carports & Patio Covers — Session 86 — Half Day AM

CEU: 0.4

Instructor: Chris Kimball, SE, PE, MCP, CBO



West Coast Code Consultants, Inc.

This seminar will focus on common structural elements of a single-family residence that do not entail the residence itself. These elements include sheds, detached garages, decks, carports and patio covers. The intent of this class is to help building officials and plans examiners to know how to quickly perform a review of these projects at the counter to see if they are in compliance with the 2018 *International Building Code*® (IBC®) and also to help building inspectors and contractors to know what to look for in the field. Common problems will be discussed and enforcement recommendations provided.

2018 IRC Structural Concerns in Residential Construction — Session 87 — Half Day PM**CEU:** 0.4**Instructor:** Chris Kimball, SE,
PE, MCP, CBO

West Coast Code Consultants, Inc.

The majority of this seminar is spent reviewing specific construction and framing errors identified by licensed structural engineers and the Engineered Wood Association (APA). The lateral load path will be discussed in detail as well as common site conditions that should be reviewed for each project. Handouts will be provided that will assist inspectors in the field to be able to check common framing errors such as overdriven fasteners, excess notches or holes, misplaced holdowns, etc. The last portion of the course is reserved as an open discussion period.

IBC Performance-Based Means of Egress Design — Session 88**CEU:** 0.8**Instructor:** Greg Keith

This class is an interactive workshop that will describe how to design a means of egress system based on Chapter 10 requirements. The performance-based aspect of means of egress design that is intended to accommodate various building configurations will be emphasized. The “three-part” means of egress system provisions will be discussed in detail. The differences between capacity-based and occupant tenability-based design requirements will be explained. Comprehensive practical exercises will reinforce the “system” of proper means of egress design. Applicable changes to the 2018 *International Building Code*® (IBC®), to include exit and exit access stairway provisions, will be discussed in context with discussed material.

Aerial Technology (Drones) Solutions in AEC and Government — Session 89 — Half Day AM**CEU:** 0.4**Instructor:** Robert Roque

Attendees will learn from drone experts on how drone aerial data gathering, processing and collaboration is disrupting AEC and government! Disruption examples; (Uber ~ Taxi, Amazon ~ Retail). Learn how this technology integrates to current GIS, BIM, CAD technologies to maximize capabilities over the lifecycle of projects. This innovative seminar will discuss, among many others: mobile flight teams requirements, collaborative information systems and processing, public relations and legal/regulatory.

Squatters — Session 90 — Half Day PM**CEU:** 0.4**Instructor:** Matthew Meanea

Squatting has become a significant issue wherever vacant homes exist. This session will cover legal issues along with strategic and tactical responses to squatter activity. Attendees will discuss adverse possession, property rights, civil vs criminal law, state and local legislative efforts as well as criminal activity associated with squatting. The discussion will include squatter types, the key players and stakeholders, red flags and available resources. Information on responding to complaints, how to identify fake leases and approaches to use, such as: soliciting help from abandoned property owners, the “Task Force” approach or Cash for Keys. This seminar will provide and review several squatter cases.

Dampers in Fire-Resistance-Rated Construction — Session 91 — Half Day AM**CEU:** 0.4**Instructor:** Richard Walke

The mechanical and building codes require dampers used in fire-resistance-rated and smoke rated assemblies to be listed and labeled to specific standards based on the application. Learn more about the code requirements for fire, smoke, combination, ceiling radiation and corridor dampers, how products are tested to the code referenced standards, and the methods of confirming code compliance through the use of the *UL Fire Resistance Directory*, the *UL Online Certifications Directory* and *UL Product Spec*. Also learn about the installation and maintenance requirements for dampers contained in NFPA 80 and 105.

Fire Doors and Fire Windows — Session 92 — Half Day PM**CEU:** 0.4**Instructor:** Richard Walke

The 2018 *International Building Code*® (IBC®) requires the individual products comprising an opening protective to be tested to specific standards and labeled by an approved agency. Learn more about the code requirements for fire door and fire window assemblies, how assemblies are tested to the code referenced standards, and the methods of confirming code compliance including the use of the *UL Fire Resistance Directory*, the *UL Online Certifications Directory* and *UL Product Spec*. Also learn about the installation and maintenance requirements for opening protectives contained in NFPA 80 and 105.

Marijuana and the Building Code — Session 93**CEU:** 0.8**Instructor:** Steve Thomas

As passage of legalized marijuana sweeps across the country, inquiries for new and modifications to existing structures for such facilities have already begun. This fast-paced class has been created to discuss facilities – use, egress, electrical concerns, hazards (MAQs), mechanical (exhaust and ventilation), occupancies, plumbing issues, sprinklers and waste disposal. Further discussion will address the potential impact of such legislation on the built environment, based on situations that have been encountered in other states that have previously passed similar legislation and what effects Washington's law might have on local jurisdictions.

Building Department Financial Management — Session 94 — Half Day AM**CEU:** 0.4**Instructor:** Tim Ryan

This seminar describes how to manage building department finances using budgets, cost and revenue control, reporting and records management, and ways to improve and enhance financial and records management.

Building Department Personnel Management — Session 95 — Half Day PM**CEU:** 0.4**Instructor:** Tim Ryan

This seminar addresses the knowledge and skills necessary to successfully manage a staff of building department employees and a building inspections department. In addition to skills related to recruiting, hiring, and maintaining a dynamic staff, the seminar provides an overview of effective leadership and how it applies to the building department. Topics included will be of interest to new managers, as well as to experienced managers.

REGISTRATION INFORMATION

Registration fees include: instruction, reference materials or books (when applicable and unless otherwise noted), lunch and break refreshments. Codes and other reference books are NOT provided and are the responsibility of the student. For your convenience, code books and other reference materials may be purchased from the International Code Council (ICC) on-site bookstore during the conference. Please review the session descriptions for required reference materials or supplies.

REGISTRATION COSTS

SAVE MONEY — REGISTER EARLY

Early Registration

\$800 - Full Five-Day Week per Registrant*

\$200 - per Day or Session

Early Registration Ends on February 19, 2018

Late or On-Site Registration

\$1000 - Full Five-Day Week per Registrant*

\$250 - per Day or Session*

*Includes books/materials unless noted in seminar description

REGISTRATION METHODS

1. REGISTER ONLINE

The Code Council's secure website:
www.iccsafe.org/educode.

Follow the easy online directions.

2. REGISTER BY MAIL

Complete the registration form on the next page and mail to:

EduCODE Registrar
International Code Council
Central Regional Office
4051 Flossmoor Road
Country Club Hills, Illinois 60478

3. EduCODE HELP LINE

Contact the Code Council at 1-888-422-7233, ext. 4333 or
jfranklin@iccsafe.org

CONFIRMATION

Registration confirmation will be sent by EduCODE within two days of receipt of registration.

CANCELLATION POLICY

If you need to cancel, EduCODE must receive notification in writing by February 19, 2018 to receive a full refund. All refund requests after this date will be credited toward next year's EduCODE conference attendance only.

EDUCODE EVENTS

- ♦ Tuesday Night: Student Appreciation Event!
5:30 – 7:30 p.m. Come join us for drinks and food.
- ♦ Wednesday & Thursday Night: ICC Certification Exams
5:00 p.m. each evening.
- ♦ Wednesday Night: Networking Event
5:30 – 7:30 p.m. Come join us for food and drinks and networking with your fellow students, instructors, and tradeshow partners.
- ♦ Thursday Night: Bowling Networking Event
6:00 – 9:00 p.m. Come join us for food, drinks and bowling and another opportunity to meet your fellow students, instructors, and tradeshow partners.
- ♦ EduCODE Expo
Daily from 7:00 a.m. – 5:00 p.m. Come visit the various suppliers of products and services that affect our built environment.
- ♦ ICC Bookstore
Daily from 7:00 a.m. – 5:00 p.m.

SUBSTITUTIONS

Whenever a registrant is unable to attend a paid seminar session, a request for substitution may be made by contacting ICC at 1-888-422-7233, ext. 4333. Requests after February 19, 2018, must be made in person at the EduCODE Conference Registration Booth. Please note that each registration may only be substituted with one person.

CONTINUING EDUCATION INFORMATION

All EduCODE sessions are recognized by ICC's Preferred Provider Program for CEUs toward maintenance of your ICC certifications. Please check the website for updated AIA approvals at www.iccsafe.org/educode. Check with your local licensing board for additional CEU requirements.

CERTIFICATION & TESTING

- ♦ Exams will be offered on Wednesday, 3/22, and Thursday, 3/23, at 5:00 p.m.
- ♦ Please check www.iccsafe.org/educode for more detailed information including tests offered and pricing.



ICC Membership Number:				EARLY REGISTRATION INFORMATION <ul style="list-style-type: none"> • Best Value (\$\$) – Full-week Registration • Early Registration Deadline: February 19, 2018 • \$200—per Day • \$800—Full Five-Day Week LATE REGISTRATION INFORMATION <ul style="list-style-type: none"> • \$250—per Day • \$1000—Full Five-Day Week ON-SITE REGISTRATION <ul style="list-style-type: none"> • \$250—per Day • \$1000—Full Five-Day Week <p>SN-ICC and the International Code Council reserve the right to photograph or videotape seminars for promotional purposes. Your registration serves as permission to SN-ICC and ICC to copyright, publish and use your likeness in print, online or in other media and to exchange contact information with other participants from this event for the purpose of networking and consultation. If you do not wish to be photographed or videotaped, please tell the camera operator.</p> <p>Mail to: EduCODE Registrar, International Code Council Central Regional Office 4051 Flossmoor Road Country Club Hills, Illinois 60478</p> <p>Fax to: 708-799-2651</p> <p>Contact the International Code Council at 1-888-422-7233, extension 33818 or jfranklin@iccsafe.org</p>
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Please indicate if you require special seminar room accessibility accommodations:				

SEMINAR REGISTRATION

LIST SEMINAR SESSION NUMBER AND BOOK FEE AMOUNTS

	Monday	Tuesday	Wednesday	Thursday	Friday
AM or All Day					
PM					
Book Fee	\$	\$	\$	\$	\$

TOTAL REGISTRATION FEES

I am attending all 5 days:	\$800 (early)	or	\$1000 (late, after 02/19/18)	\$
I am attending less than 5 days :	\$200 per day (early)	or	\$250 per day (late, after 02/19/2018)	\$
Total Book Fees:				\$
PAYMENT OPTIONS			TOTAL:	\$

	Bill Me (Code Council Members only)	Member #:
	Payment Enclosed (Checks payable to: International Code Council)	
	Credit Card Payment: _____ Visa _____ Mastercard _____ American Express _____ Discover	
Card Number:	Exp. Date: /	Signature: _____ Date: _____

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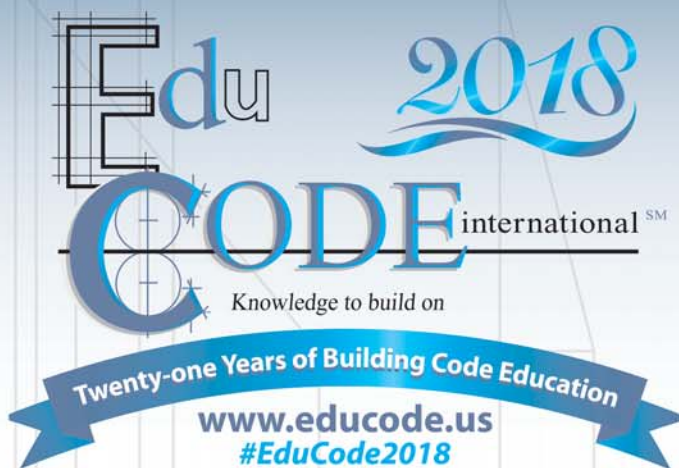


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EduCODE International Conference & EXPO 2018

March 19-23, 2018

THE ORLEANS HOTEL | LAS VEGAS, NEVADA

www.iccsafe.org/EduCode

1-888-ICC-SAFE (422-7233), ext. 4333

REGISTRATION CHECKLIST

- Contact the International Code Council at 1-888-422-7233, extension 33818 or online at www.iccsafe.org/EduCode
- Best Value \$\$ — Full week Registration
- Deadline Feb. 19, 2018

► Pre-Registered?

Go directly to the Registration Desk and pick up your registration packet.

► Late or On-Site Registration?

On-site registrants should go directly to the Registration Desk and register.

► Registration Hours

- 6:30 A.M. – 1:00 P.M.

► Full-Day Class Schedule (0.8 CEU)

- Classes start: 7:30 A.M.
- Lunch Break 1½-hour break
- Classes End 5:00 P.M.

► Half-Day Class Schedule (0.4 CEU)

- A.M. Classes 7:30 A.M. – 11:30 A.M.
- Lunch Break 1½-hour break
- P.M. Classes 1:00 P.M. – 5:00 P.M.

EduCODE Expo Raffle Prizes at 12:35 PM each day!

HOTEL CHECKLIST

- Contact The Orleans Hotel at 1-800-675-3267 or www.orleanscasino.com/groups
- Use EduCODE Group Code **A8ECC03**
- Deadline Feb. 14, 2018



International Code Council
Training & Education Department
4051 Flossmoor Road
Country Club Hills, IL 60478



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www.educode.us