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# Edu 2019

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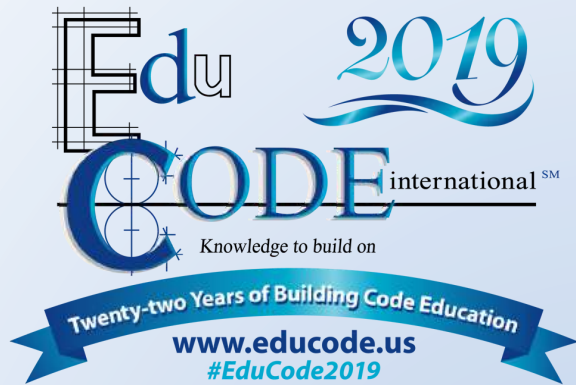
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Welcome to EduCODE 2019!

As we enter our 22nd year of EduCODE we want to thank you for making our conference successful. EduCODE 2019 is designed around your comments, needs and suggestions to provide the best educational training for the code professional in the country. Along with our nationally acclaimed presenters, daytime and evening networking events throughout the week, numerous industry representatives showcasing their products and services at our daily expo and the ICC bookstore; we provide a staff available around the clock to assist most needs.

Presented by the Southern Nevada Chapter of the International Code Council, EduCODE 2019 provides over 90 different classes at one location, all ICC Preferred Provider certified along with the opportunity to brainstorm and share ideas, concepts, problems and thoughts with instructors and fellow code professionals alike. Whether you attend for one day or the entire week, we are sure that your experience will be unforgettable and enjoyable! Our networking events are designed to bring participants, instructors and industry professionals together in relaxed, informal and fun settings to further the EduCode experience.

If you have any questions or need assistance, please do not hesitate to ask any EduCODE volunteer for assistance as we are always glad to help.

Again, welcome to EduCODE 2019!! We are glad you are attending.

Sincerely,

Alan Ellis  
EduCODE Director

**2018 IBC Essentials** — Session 1

**CEUs:** 0.8  
**Instructor:**  
 George Mann

This seminar focuses on the basic concepts of the 2018 *International Building Code*® (IBC®). These concepts provide a basis for the correct utilization of the code. A clear understanding of the identified requirements allows the code user to apply 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 course will also help the code user to correctly locate code requirements. It will also provide a basis for the correct use and application of the code as well as to begin to develop a procedure for applying them. It will address the organization of the code and how it relates to the IBC family of International Codes.

**2018 IBC Means of Egress** — Session 2

**CEUs:** 0.8  
**Instructor:**  
 Doug Thornburg

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 assist plan reviewers, design professional and inspectors in the identification of the design and component issues requiring 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 applicable sections of the IBC.

**Commercial Electrical Inspections** — Session 3

**CEUs:** 0.8  
**Instructors:**  
 Randy Hunter &  
 Christel Hunter

This seminar 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, wiring method installations, grounding and bonding, ground fault protection of equipment, selective coordination and emergency systems. Photos and diagrams will be used to illustrate key inspection items and a color handout will be provided. Participants should bring a copy of the *National Electrical Code*® for reference.

**2018 IBC Fire and Life Safety Principles** — Session 4

**CEUs:** 0.8  
**Instructor:**  
 Terrell Stripling

This seminar addresses the critical concepts of the 2018 *International Building Code*® (IBC®) regarding fire and life safety, 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

**CEUs:** 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; fireblocking and draftstopping.

**IRC Plan Review** — Session 6

**CEUs:** 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.

**Installation of Sprinkler Systems – Day 1** — Session 7

**CEUs:** 1.6  
**Instructor:**  
 Russ Leavitt

This 2-day seminar is a comprehensive review of the latest edition of NFPA 13. Attendees participate in an extensive examination of the standard with an emphasis on locating, interpreting, and applying the various requirements, including: hazard classification, system types, components, and installation requirements. Additionally, water supplies, design deliverables, and acceptance testing are addressed with an emphasis on their practical application. Required materials to bring: NFPA 13 (2013 Ed.) standard

**2018 UPC/IPC Essentials** — Session 8

**CEUs:** 0.8  
**Instructor:**  
 Tim Collings

This seminar is an excellent opportunity to get-up-to speed on what you need to know to be able to effectively use the 2018 Uniform Plumbing Code and/or *International Plumbing Code®* (IPC®). By providing a fundamental understanding of the code, this seminar offers participants an opportunity to learn the basics of the codes by showing how the code is organized, discussing the key concepts, and identifying important provisions in each chapter. Each chapter is covered in an easy-to-understand way that supplies the “need to know” information required to successfully understand and apply the provisions of that chapter.

**Leadership IMPACT – Communications** — Session 9

**CEUs:** 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.

**Light Frame Fire Detailing for Midrise Residential Construction** — Session 10

**CEUs:** 0.8  
**Instructor:**  
 Dennis Richardson

Determining the proper code application for wood-frame fire resistance rated assemblies can be challenging and is often further complicated with increases in a project's size and scale. There are 4 different floor framing methods applicable to mid- and low-rise residential wood structures. This seminar will include code requirements, compliance options and nuances related to the framing and intersections of fire resistance-rated floor/ceiling assemblies, exterior walls, fire barriers, fire partitions, and fire walls in Types III, IV and V residential construction. Topics will include distinctions between fire-resistive elements for separation vs. structural fire resistance rating of supporting construction and when required by the type of construction. Approved code changes from the 2015 IBC and 2018 *International Building Code*® (IBC®) will be discussed, offering more clarity on the application of the 2015 IBC. Also a discussion on the 2021 IBC and future codes.

**IBC Practical Occupancy Classification** — Session 11

**CEUs:** 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.

**Bridging the Communication Gap in Code Enforcement** — Session 12

**CEUs:** 0.4  
**Instructor:**  
 Marcus Kellum

The future of the public service is under intense scrutiny and review as to its effectiveness and whether it provides value for money spent by taxpayers. They see the civil service as large and bureaucratic serving as an employment agency rather than a provider of efficient services. To bridge that gap a more concerted effort must be made to bring information to the public in layman's terms. This seminar is designed to assist code enforcement professionals with tools to develop better internal and external communication.

**Legal, Ethical and Moral Code Enforcement** — Session 13

**CEUs:** 0.4  
**Instructor:**  
 Marcus Kellum

Ethics and morals relate to “right” and “wrong” conduct. While they are sometimes used interchangeably, they are different. Is following the rules the safest option? This seminar is designed to explore the world of these concepts in a regulatory environment and to help officers and inspectors develop practices to stay abreast of the right and wrong things to do during their daily workday.

**Principles of Building Materials and Structures** — Session 14

**CEUs:** 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.

**Inspector Skills** — Session 15

**CEUs:** 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 16

**CEUs:** 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.

**Installation of Sprinkler Systems – Day 2** — Session 7

**CEUs:** 1.6  
**Instructor:**  
 Russ Leavitt

This 2-day seminar is a comprehensive review of the latest edition of NFPA 13. Attendees participate in an extensive examination of the standard with an emphasis on locating, interpreting, and applying the various requirements, including: hazard classification, system types, components, and installation requirements. Additionally, water supplies, design deliverables, and acceptance testing are addressed with an emphasis on their practical application. Required materials to bring: NFPA 13 (2013 Ed.) standard

**2018 IBC Significant Changes** — Session 17

**CEUs:** 0.8  
**Instructor:**  
 George Mann

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 is based on the ICC publication *Significant Changes to the International Building Code, 2018 Edition*.

**2018 IRC Building Safety Features** — Session 18

**CEUs:** 0.8  
**Instructor:**  
 Cash Olszowy

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.

**2017 National Electrical Code Analysis of Changes** — Session 19

**CEUs:** 0.8  
**Instructors:**  
 Randy Hunter &  
 Christel Hunter  
**Book Fee:**  
 \$80.00

Be the first to learn the most essential changes to the 2017 National Electrical Code (NEC)! This extensive and popular program analyzes the major changes to the 2017 NEC in a clear and informative presentation. Written by industry experts who sit on the NEC code-making panels, the book is a must-have resource you will reference throughout the years. This edition covers 255 reported changes, including five new Articles.

**2018 IFC Essentials** — Session 20

**CEUs:** 0.8  
**Instructor:**  
 Terrell Stripling

This seminar will introduce key concepts and code provisions regarding: 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.



**Building Areas, Mixed Occupancies and Fire Areas** — Session 21

**CEUs:** 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.

**Combination Inspections of Commercial Structures** — Session 22

**CEUs:** 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.

**2018 UMC/IMC Essentials** — Session 23

**CEUs:** 0.8  
**Instructor:**  
 Tim Collings

Providing a fundamental understanding of the 2018 Uniform Mechanical Code and International Mechanical Code® (IMC®), this seminar offers participants an opportunity to learn the basics of the 2018 editions. By providing a fundamental understanding of the code, this seminar offers participants an opportunity to learn the basics of the codes by showing how the code is organized, discussing the key concepts, and identifying important provisions in each chapter. Each chapter is covered in an easy-to-understand way that supplies the “need to know” information required to successfully understand and apply the provisions of that chapter.

**Leadership IMPACT – Team Member Engagement** — Session 24

**CEUs:** 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 25

**CEUs:** 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 correctively 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.

**Code Considerations for Low-Slope Roofing** — Session 26

**CEUs:** 0.8  
**Instructor:**  
 Mike Ennis

This informative and interactive seminar that encourages questions and input from the participants, has been expanded in 2019 to provide attendees with a better understanding of the most common low-slope roof assemblies and their components including decking, insulation, cover boards, fasteners, adhesives and membranes. This seminar will focus on Chapter 15 of the International Building Code® (IBC®), as attendees learn and discuss the requirements of 2018 IBC, and prior years still in use, which are associated with Low-Slope Roof Assemblies and Rooftop Structures. Specific topics will include roof system physical properties, fire classification and product identification, perimeter edge metals, ballast, aggregate, roof gardens, photovoltaics and reroofing. Several Chapter 15 code changes proposed for 2021 IBC will also be presented for discussion.

**IBC Occupancy-Based Requirements** — Session 27

**CEUs:** 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 *International Building Code*® (IBC®) will be discussed in context with discussed provisions.

**Vacancy, Blight and Local Governments** — Session 28

**CEUs:** 0.4  
**Instructor:**  
 Marcus Kellum

Most municipalities confronted with high rates of vacancy and blight are struggling. Recently, most government officials, community leaders and neighborhood organizations have seen the light in terms of understanding the severity of the crisis. The amount of vacant property in some communities is impossible to ignore. This seminar is designed to discuss solutions that local governments can take to address these issues.

**Creating Great Code Enforcement Officers** — Session 29

**CEUs:** 0.4  
**Instructor:**  
 Marcus Kellum

In many small municipalities there is no formal code enforcement officer/inspector training. Many places cannot afford to have an internal trainer or to send all aspiring officers, inspectors or managers to external training. Some people thrive when thrown into a new position; others might tread water frantically while others still flounder about badly. How does one develop basic enforcement officer skills without any formal training? This seminar is designed to bridge the divide and create great code enforcement officers with basic project management tips and developing process driven work flows.

**Firestopping – Plan Review and Inspection** — Session 30

**CEUs:** 0.8  
**Instructor:**  
 Brice Miller

This seminar is designed for Plans Examiners, Fire and Building Inspectors, Contractors, Architects and Engineers. Throughout the seminar, we will review the firestopping requirements of the International Building Code® (IBC®), as well as hold a general discussion as to why firestop inspections have proven to be one of the most difficult challenges for code officials. Methods to achieve code-compliant firestop systems for joints, perimeter containment, through and membrane-penetrations will be provided, and we will discuss the new ASTM firestop inspection standards. This seminar will also provide an overview of draftstopping and fireblocking. Overall, attendees will leave this program encouraged, informed and with helpful hints and techniques pertaining to their field of work.

**The Complete Permit Technician – Day 1** — Session 31

**CEUs:** 0.8  
**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 International Building Code® (IBC®), 2015 International Zoning Code® (IZC®), *Legal Aspects of Code Administration*, and *Basic Code Enforcement*.

**Legal Aspects of Code Administration** — Session 32

**CEUs:** 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.

**2018 IRC Essentials** — Session 33

**CEUs:** 0.8  
**Instructor:**  
 John Gibson

This seminar examines basic concepts of the 2018 *International Residential Code*® (IRC®). These concepts 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 also help the code user to correctly locate code requirements. It will also provide a basis for the correct use and application of the code as well as to begin to develop a procedure for applying them.

**2018 IBC Significant Structural Changes** — Session 34

**CEUs:** 0.4  
**Instructor:**  
 Sandra Hyde

This seminar provides valuable information that identifies changes between the 2015 and 2018 International Building Code® (IBC®) regarding structural provisions and referenced structural standards. The instructor will detail how these changes to the structural provisions impact design and help the learner to best enforce these code changes.

**Structural Loads and Load Paths** — Session 35

**CEUs:** 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.

**General Electrical Inspections** — Session 36

**CEUs:** 0.8  
**Instructors:**  
 Randy Hunter  
 & Rick O'Brien

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 *National Electrical Code*® requirements and installation requirements published by equipment manufacturers, and a color handout will be provided. 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 updated each year to reflect recent issues found by inspectors. Participants should bring a copy of the National Electrical Code® for reference.

**2018 IFC Significant Changes** — Session 37

**CEUs:** 0.8  
**Instructor:**  
 Kevin Scott

This presentation on the significant changes found in the 2018 *International Fire Code* is intended to familiarize fire officials, building officials, plans examiners, fire inspectors, design professionals, and others with the many important changes that were made to the 2015 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 38

**CEUs:** 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 39

**CEUs:** 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.

**Sprinkler Plan Review** — Session 40

**CEUs:** 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 the knowledge 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. Required materials: NFPA 13 (2016 Ed.), architectural scale, calculator with exponential math capabilities

**Plumbing and Mechanical Code Considerations for Grow Houses** — Session 41

**CEUs:** 0.4  
**Instructor:**  
 Dan  
 Rademacher

As more parts of the country legalize the use of marijuana, a massive increase in the number of facilities to grow these plants has followed. In order to optimize growing conditions, these grow houses have unique plumbing and mechanical needs that need to be taken into consideration for the proper design, construction, maintenance, and inspection of these facilities. This seminar will discuss these unique issues and how they should be addressed.

**2018 Plumbing Systems and Infection Control in Health Care Facilities** — Session 42

**CEUs:** 0.4  
**Instructor:**  
 Dan  
 Rademacher

Health care facilities are unique in the systems that are installed and the purpose the facilities serve. In order for these types of facilities to provide the services they are intended to, their plumbing needs are unique as well. This seminar will discuss the unique plumbing needs of health care facilities and the code requirements the govern their proper installation and maintenance. In addition to their unique installations, infection prevention and control is a serious issue for healthcare facilities. Healthcare professionals have identified renovation projects as a potential source for a patient's infection risk and this source must be monitored. The discussion will also include The ASSE Series 12000 standard and certifications, and how this standard applies to construction workers, contractors, and building officials.

**Leadership – IMPACT –Self-Mastery** — Session 43

**CEUs:** 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.

**Tall Buildings Out of Mass Timber** — Session 44

**CEUs:** 0.8  
**Instructor:**  
 Dennis Richardson

This seminar explores what mass timber is and how it is has been used to construct buildings up to 18 stories tall. Fire resistance, structural properties, the current status of seismic design criteria, along with examples of projects either built or currently under construction, will be presented. Calculated fire resistance rating of exposed members from Chapter 16 of the 2018 National Design Specification (NDS) for Wood Construction and the 2021 International Building Code® (IBC®) proposals for added fire resistance from noncombustible protection will be discussed including the updated version of Technical Report 10 published by the American Wood Council. Recent and ongoing fire and structural testing will be discussed along with clarifications provided by approved updates coming in the 2018 IBC and 2018 NDS as well as proposals approved at the Committee Action Hearing for three new types of construction IV A, IV B and IV C in the 2021 IBC.

**IBC Types of Construction Options** — Session 45**Ph.D.****CEUs:** 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.

**Foreclosures & Abandonment** — Session 46**CEUs:** 0.8  
**Instructors:**  
Heather Lazar  
& Drew Hohensee

This first part of this series will lay the foundation of the foreclosure process. The in's and out's of the entire process, from start to finish, will be dissected and reviewed. The second part of this series will focus on the frustrations caused by a lack of transparency with a current and primary source for information for code enforcement officers: County records. This segment of the course will focus on the wide variety of recent legislative efforts to address the impacts of abandonment on a community.

**Reinforcing Steel Inspection** — Session 47**CEUs:** 0.4  
**Instructor:**  
Gregory Halsted

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.

**RCSC/ACSI Structural Bolting** — Session 48**CEUs:** 0.4  
**Instructor:**  
Sunny Ghabban

This seminar will focus on modern Structural Bolting. Attendees will learn definitions and required specifications for steel connections. Further, attendees will be provided discussion and demonstration on; proper installation and inspection. These discussions will assist attendees with a better understanding of the differences in tension and torque. This seminar will also provide field studies and an application demonstration using the Hydraulic Skidmore-Wilhelm Tension Calibrator, actual construction grade tools and the actual structural fasteners.

Class Topics	Monday March 11	Tuesday March 12	Wednesday March 13	Thursday March 14	Friday March 15
<b>I-CODES</b>	2018 IBC Essentials <b>Session 1</b> FULL DAY	2018 IBC Significant Changes <b>Session 17</b> FULL DAY	2018 IRC Essentials <b>Session 33</b> FULL DAY	2018 IRC Significant Changes <b>Session 51</b> FULL DAY	2018 IBC Mixed Occupancies <b>AM Session 69</b> 2018 IBC Special Building Types and Features <b>PM Session 70</b>
	2018 IBC Means of Egress <b>Session 2</b> FULL DAY	2018 IRC Building Safety Features <b>Session 18</b> FULL DAY	2018 IBC Significant Structural Changes <b>AM Session 34</b> Structural Loads and Load Paths <b>PM Session 35</b>	2018 IBC Transition from the 2012 IBC <b>Session 52</b> FULL DAY	2018 IRC Transition from the 2012 IRC <b>Session 71</b> FULL DAY
<b>SPECIALIZED I-CODES</b>	2018 IBC Means of Egress <b>Session 2</b> FULL DAY	2018 IRC Building Safety Features <b>Session 18</b> FULL DAY	2018 IBC Significant Structural Changes <b>AM Session 34</b> Structural Loads and Load Paths <b>PM Session 35</b>	2018 IBC Transition from the 2012 IBC <b>Session 52</b> FULL DAY	2018 IRC Transition from the 2012 IRC <b>Session 71</b> FULL DAY
<b>ELECTRICAL</b>	Commercial Electrical Inspections <b>Session 3</b> FULL DAY	2017 National Electrical Code Analysis of Changes <b>Session 19</b> FULL DAY	General Electrical Inspections <b>Session 36</b> FULL DAY	NEC Calculations Workshop <b>Session 53</b> FULL DAY	Residential Electrical Systems <b>Session 72</b> FULL DAY
<b>BUILDING &amp; FIRE SAFETY PROTECTION &amp; PRINCIPLES</b>	2018 IBC Fire and Life Safety Principles <b>Session 4</b> FULL DAY	2018 IFC Essentials <b>Session 20</b> FULL DAY	2018 IFC Significant Changes <b>Session 37</b> FULL DAY	2018 IFC Transition from the 2012 IFC <b>Session 54</b> FULL DAY	2018 IBC and IFC Fire Protection Systems <b>Session 73</b> FULL DAY
<b>BUILDING PLAN REVIEW</b>	Fire-Resistance-Rated Construction <b>Session 5</b> FULL DAY	Building Areas, Mixed Occupancies and Fire Areas <b>Session 21</b> FULL DAY	Overview of Accessibility Requirements <b>Session 38</b> FULL DAY	IBC Commercial Plan Review <b>Session 55</b> FULL DAY	Alterations, Tenant Improvements and Renovations <b>AM Session 74</b> Additions and Change of Occupancy <b>PM Session 75</b>
	IRC Plan Review <b>Session 6</b> FULL DAY	Combination Inspections of Commercial Structures <b>Session 22</b> FULL DAY	IRC Residential Inspections <b>Session 39</b> FULL DAY	Advanced Means of Egress <b>Session 56</b> FULL DAY	Special Inspections for Code Officials <b>Session 76</b> FULL DAY
<b>ADDITIONAL BUILDING PLAN REVIEW &amp; INSPECTIONS</b>	IRC Plan Review <b>Session 6</b> FULL DAY	Combination Inspections of Commercial Structures <b>Session 22</b> FULL DAY	IRC Residential Inspections <b>Session 39</b> FULL DAY	Advanced Means of Egress <b>Session 56</b> FULL DAY	Special Inspections for Code Officials <b>Session 76</b> FULL DAY
<b>FIRE PROTECTION SYSTEMS</b>	Installation of Sprinkler Systems <b>Session 7</b> TWO DAYS		Sprinkler Plan Review <b>Session 40</b> FULL DAY	Residential Sprinkler Systems <b>Session 57</b> FULL DAY	Commercial Cooking - Restaurant & Food Trucks <b>AM Session 77</b> Energy Storage Systems - Fire Protection Concepts <b>PM Session 78</b> FULL DAY
	2018 UPC/IPC Essentials <b>Session 8</b> FULL DAY	2018 UMC/IMC Essentials <b>Session 23</b> FULL DAY	Plumbing & Mechanical Code Considerations for Grow Houses <b>AM Session 41</b> 2018 Plumbing Systems & Infection Control in Health Care Facilities <b>PM Session 42</b>	Plumbing & Code Basics for Combination Inspectors <b>Session 58</b> FULL DAY	HVAC & Mechanical Code Basics for Combination Inspectors <b>Session 79</b> FULL DAY
<b>PLUMBING &amp; MECHANICAL</b>	2018 UPC/IPC Essentials <b>Session 8</b> FULL DAY	2018 UMC/IMC Essentials <b>Session 23</b> FULL DAY	Plumbing & Mechanical Code Considerations for Grow Houses <b>AM Session 41</b> 2018 Plumbing Systems & Infection Control in Health Care Facilities <b>PM Session 42</b>	Plumbing & Code Basics for Combination Inspectors <b>Session 58</b> FULL DAY	HVAC & Mechanical Code Basics for Combination Inspectors <b>Session 79</b> FULL DAY



Class Topics	Monday March 11	Tuesday March 12	Wednesday March 13	Thursday March 14	Friday March 15
LEADERSHIP & PERSONAL DEVELOPMENT	Leadership IMPACT-Communications <b>Session 9</b> FULL DAY	Leadership IMPACT-Team Member <b>AM Session 24</b>	Leadership IMPACT-Self-Mastery <b>Session 43</b> FULL DAY	Leadership SUCCESS-Decision Making & Ethics <b>AM Session 59</b>	Leadership TRANSFORMATION-Innovation and Change <b>AM Session 80</b>
		Leadership IMPACT-Coaching Skills <b>PM Session 25</b>		Leadership SUCCESS-Personal Power & Relationships <b>PM Session 60</b>	Leadership TRANSFORMATION-Success Skills for Leaders <b>PM Session 81</b>
ARCHITECTURAL DESIGN & ENGINEERING	Light Frame Fire Detailing for Midrise residential Construction <b>Session 10</b> FULL DAY	Code Considerations for Low-Slope Roofing <b>Session 26</b> FULL DAY	Tall Buildings out of Mass Timber <b>Session 44</b> FULL DAY	Structural Requirements for Existing Buildings <b>Session 61</b> FULL DAY	Chapter 18 - Deep Foundations <b>AM Session 82</b>
					Bracing of Non-Structural Components <b>PM Session 83</b>
ADVANCED IBC TOPICS	IBC Practical Occupancy Classification <b>Session 11</b> FULL DAY	IBC Occupancy-Based Requirements <b>Session 27</b> FULL DAY	IBC Types of Construction Options <b>Session 45</b> FULL DAY	IBC Prescriptive Means of Egress Components <b>Session 62</b> FULL DAY	IBC Performance-Based Means of Egress Design <b>Session 84</b> FULL DAY
CODE ENFORCEMENT	Bridging the Communication Gap in Code Enforcement <b>AM Session 12</b>	Vacancy, Blight & Local Governments <b>AM Session 28</b>	Foreclosures & Abandonment <b>Session 46</b> FULL DAY	Marketing your Code Enforcement Division <b>AM Session 63</b>	Bed Bugs & the Code Enforcement Officer <b>AM Session 85</b>
	Legal, Ethical and Moral Code Enforcement <b>PM Session 13</b>				
BUILDING SPECIALTIES	Principles of Building Materials & Structures <b>Session 14</b> FULL DAY	Firestopping - Plan Review and Inspection <b>Session 30</b> FULL DAY	Reinforcing Steel Inspection <b>AM Session 47</b>	Vertical Building Components in Multi-Story Structures <b>AM Session 65</b>	2018 IBC Exterior Wall and Opening Protection <b>AM Session 87</b>
			RCSC/ACSI Structural Bolting <b>PM Session 48</b>		Fire-Resistance, Opening Protection and The Five Walls <b>PM Session 66</b>
CURRENT TOPICS	Inspector Skills <b>Session 15</b> FULL DAY	The Complete Permit Technician <b>Session 31</b> TWO DAYS		2018 IBC Care Facilities Provisions <b>Session 67</b> FULL DAY	Marijuana and the Building Code <b>Session 89</b> FULL DAY
BUILDING OFFICIAL DESIGN & SPECIALTIES	So You Want to Be A Building Official <b>Session 16</b> FULL DAY	Legal Aspects of Code Administration <b>Session 32</b> FULL DAY	Code, Standards and Listings - Working Together <b>AM Session 49</b>	Increasing the Credibility of the Code Official <b>Session 68</b> FULL DAY	Report Writing for Code Officials <b>AM Session 90</b>
			Alternate Materials & Emerging Technologies <b>PM Session 50</b>		Ethics in Public Life <b>PM Session 91</b>

**The Complete Permit Technician – Day 2** — Session 31**CEUs:** 0.8**Instructor:**

Steve Burger

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*.

**Code, Standards and Listings – Working Together** — Session 49**CEUs:** 0.4**Instructor:**

John Taecker

There are many installation codes and product testing standards that apply to products, both safety and sustainability. How can you determine what codes and standards effect a specific product? Does the installation code influence the testing standard, or does the standard influence the code? How are codes and standards developed, and are there any opportunities to provide input? What products are required to be Listed? Learn who requires products to be certified, what tools are available to assess the qualifications of a third-party agency, what requirements are used to evaluate products, how a product is certified, and where information about certifications is found. Also covered will be identifying listed products and the scope of the certification.

**Alternate Materials and Emerging Technologies** — Session 50**CEUs:** 0.4**Instructor:**

John Taecker

Emerging technologies are developing more quickly than codes can react. This makes the job of the code official more and more challenging, in determining what installation codes and product standards are relevant, and how to assess equivalency of alternate materials and methods in accordance with Section 104.11. Learn the latest in research, codes, standards, and listings relating to flammable refrigerants, prefabricated assemblies, shipping containers, cooling towers, food trucks, CO requirements for portable generators, building integrated photovoltaics, and other hot topics. Learn about the tools and services available for code officials that are designed to assist in determining equivalency with the existing code requirements.

**2018 IRC Significant Changes** — Session 51

**CEUs:** 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 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 is based on the ICC publication *Significant Changes to the International Residential Code, 2018 Edition*

**2018 IBC Transition from the 2012 IBC** — Session 52

**CEUs:** 0.8  
**Instructor:**  
 Doug Thornburg

This seminar will assist participants in implementing the transition from the 2012 to the 2018 *International Building Code®* (IBC®). It will include relevant changes in both the 2015 and 2018 editions of the International Building Code. This interactive training will focus on the intent and purpose of many key changes, as well as their proper application, with an emphasis on those changes related to fire and life safety aspects of the IBC. The presentation will also provide an opportunity for participants to discuss and consider the changes.

**NEC Calculations Workshop** — Session 53

**CEUs:** 0.8  
**Instructors:**  
 Randy Hunter &  
 Christel Hunter

This seminar will consist of four modules covering *National Electrical Code®* applications for electrical load calculations, general circuit sizing, motor circuit sizing, and short circuit calculations. Each module will include exercises for participants to complete in class, along with extra practice exercises to complete after class.

Participants must bring a copy of the *National Electrical Code®*, a calculator and pencil/pen. A workbook with the presentation and exercises will be provided.

**2018 IFC Transition from the 2012 IFC** — Session 54

**CEUs:** 0.8  
**Instructor:**  
 Terrell Stripling

This seminar will assist participants in implementing the transition from the 2012 IFC to the 2018 IFC. It will include relevant changes in both the 2015 and 2018 editions of the *International Fire Code®* (IFC®). This interactive training will focus on the key changes presented in the participant material. The presentation will provide many opportunities for participants to discuss and consider the changes. The information presented will allow for the application of these code requirements to the design, plan review, and/or inspection functions.

**IBC Commercial Plan Review** — Session 55

**CEUs:** 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.

**Advanced Means of Egress** — Session 56

**CEUs:** 0.8  
**Instructor:**  
 Steve Thomas

This seminar takes an advanced look at the means of egress requirements included in Chapter 10 of the *International Building Code®* (IBC®). The presentation will include detailed discussions on the design and review of the means of egress in unusual occupancies. Subjects included in the class are malls, assembly occupancies, special egress components, smoke proof enclosures, horizontal exits and exit passageways. Practical examples will be used to illustrate code requirements. This class is designed for those students who already have a basic understanding of how the means of egress is designed and reviewed.

**Residential Sprinkler Systems** — Session 57

**CEUs:** 0.8  
**Instructor:**  
 Russ Leavitt

This seminar will address the design and installation of sprinkler systems in residential occupancies, per NFPA 13D, Standard for Installation of Sprinklers in One- and Two-Family Dwellings and Manufactured Homes. An understanding of the regulations for sprinkler spacing, components and hardware, hydraulic calculation exercises, along with water supply evaluations are all covered in detail. Installation requirements, including obstruction avoidance, heat zone limitations, pipe supports and valve criteria forming the foundation of such systems' design, are also presented so that attendees may accurately apply the information found in the standard. Included in the presentation are variations in the design requirements for residential or dwelling unit sprinklers found in NFPA 13 and NFPA 13R, to enhance the use of the proper criteria or standard. Required materials to bring: NFPA 13D (2016 Ed.)  
 Recommended materials to bring: NFPA 13R (2016 Ed.), NFPA 13 (2016 Ed.), scientific calculator

**Plumbing and Code Basics for Combination Inspectors** — Session 58

**CEUs:** 0.8  
**Instructor:**  
 Dan Rademacher

This seminar is intended for individuals with a background in a different trade who find themselves having to do plumbing inspections. With the increasing budgetary and staffing restraints being experienced on code enforcement departments across the country, more and more jurisdictions are having to rely on performing combination inspections rather than having dedicated inspectors for each trade. This seminar is designed to provide the inspection and code basics for combination inspectors who find themselves inspecting plumbing systems but have a background in another trade. The basics of the *Uniform Plumbing Code* will be discussed and organized in a manner that assists combination inspectors in understanding and enforcing these codes.

**Leadership SUCCESS – Decision Making and Ethics** — Session 59

**CEUs:** 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 60

**CEUs:** 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.

**Structural Requirements for Existing Buildings** — Session 61

**CEUs:** 0.8  
**Instructor:**  
 Chris Kimball

There are many instances where an adopted International Building Code® (IBC®) or International Existing Building Code® (IEBC®) (2015 or 2018) require a mandatory seismic upgrade of an existing building. This seminar will discuss when such an upgrade is triggered, as well as other items that may require a structural analysis by the code. We will discuss what should be required by the building official at the plan review stage and what building inspectors should look for in the field. An emphasis will be made on what the actual intent of the code is and how a win-win scenario can be created for both the jurisdiction and the building owner.

**IBC Prescriptive Means of Egress Components** — Session 62

**CEUs:** 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.

**Marketing Your Code Enforcement Division** — Session 63

**CEUs:** 0.4  
**Instructor:**  
 Pete Roque

Marketing is everything you do that creates a perception within your community and among peers of who you are, what you do and what you stand for. You can help create a particular impression of yourself in the minds of others by engaging in activities aligned with the attributes you want others to associate with you. This seminar will help attendees understand simple marketing concepts such as marketing their code enforcement program, believing in what they are selling, and understanding their target audience.

**Simplifying Your Code Enforcement Presentations** — Session 64

**CEUs:** 0.4  
**Instructor:**  
 Pete Roque

Have you ever had to explain what it is that you do to someone in a way they can understand and appreciate what you do. Simplifying your response helps you better communicate your message. The seminar will discuss how to use storytelling and visualizations to better engage citizen groups aimed at educating people about the importance of code enforcement and the importance of maintaining and enhancing communities. This seminar was designed to help participants better hone their message

**Vertical Building Components in Multi-Story Structures** — Session 65

**CEUs:** 0.4  
**Instructor:**  
 David Dodge

This seminar will discuss prescriptive solutions and the related principles found in Chapter 7 of the *International Building Code*® (IBC®) as they relate to vertical building components in Multi-story Structures. This seminar will define and examine the following vertical components; Atriums, Interior Exit Stairways, Exit Access Stairways, Elevators as well as other multi-story space considerations. During the seminar the instructor will review real-time case studies to explore code compliance solutions reached by various jurisdictions throughout the United States. The presentation will further discuss fire resistance and fire protection requirements for separation of vertical spaces, the 5 walls and their ratings along with opening protective requirements.

**Fire Resistance, Opening and the Five Walls** — Session 66

**CEUs:** 0.4  
**Instructor:**  
 David Dodge

This fast paced seminar reviews fundamental principles found within Chapters 3 through 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, and 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, separation of vertical spaces, smoke compartmentation and the use of smoke barriers.

**2018 IBC Care Facilities Provisions** — Session 67

**CEUs:** 0.8  
**Instructor:**  
 Jay Woodward

This seminar will address provisions in the 2018 *International Building Code*® and referenced standards relating to the design and construction of care facilities, such as medical care, custodial care, ambulatory care and day care facilities. It will focus on the specific decision making needed to apply the provisions appropriately by highlighting the differences between the various types of care activities. The seminar will include a discussion on how the length of stay, number of care recipients, degree of care and capability/incapability of self-preservation all relate to the occupancy classification and resultant code requirements. Smoke compartments, dwelling and sleeping unit separations, incidental use separations and other special conditions provisions are also addressed. Unique provisions will be highlighted in the areas of accessibility, type of construction, fire protection, means of egress and interior finishes. During this seminar, participants will listen to lecture, discuss examples and participate in activities that pertain to applying sections of the IBC to care facilities.

**Increasing the Credibility of the Code Official** — Session 68

**CEUs:** 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 69

**CEUs:** 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 IBC Special Building Types and Features** — Session 70

**CEUs:** 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 Transition from the 2012 IRC** — Session 71

**CEUs:** 0.8  
**Instructor:**  
 John Gibson

This seminar will assist participants in implementing the transition from the 2012 to the 2018 *International Residential Code*® (IRC®). It will include relevant changes in both the 2015 and 2018 editions of the IRC. This interactive training will focus on the key changes presented in the participant material. Knowledge review questions will provide opportunity for participants to discuss and consider the changes.

**Residential Electrical Systems** — Session 72

**CEUs:** 0.8  
**Instructors:**  
 Randy Hunter  
 & Christel Hunter  
**Book Fee:** \$50.00

This seminar will focus on the *National Electrical Code*® sections that pertain to one- and two-family dwellings. General requirements will be covered first, and specific inspection topics including swimming pools, photovoltaic installations, energy storage, and electric vehicle chargers will also be discussed.

**2018 IBC & IFC Fire Protection Systems** — Session 73

**CEUs:** 0.8  
**Instructor:**  
 Kevin Scott

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

**Alterations, Tenant Improvements and Renovations** — Session 74

**CEUs:** 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 75

**CEUs:** 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 76

**CEUs:** 0.8  
**Instructor:**  
 Gil 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.

**Commercial Cooking – Restaurants and Food Trucks** — Session 77

**CEUs:** 0.4  
**Instructor:**  
 John Taecker

This class will cover the requirements for commercial cooking in the mechanical and fire codes, for both stationary and mobile applications. Information will include sizing and installation issues for field-fabricated and listed exhaust hoods, grease ducts, grease filters, and exhaust fans. Also discussed will be UL 300 fire suppression systems, grease duct enclosure systems (duct wrap or self-contained duct/wrap), pollution control units, downdraft cooking appliances, and ductless hood systems.

**Energy Storage Systems (ESS) – Fire Protection Concepts** — Session 78

**CEUs:** 0.4  
**Instructor:**  
 Howard Hopper

Energy storage systems (ESS) are showing up in ever increasing numbers, which creates challenges for fire officials who must address a new generation of fire safety concerns. These systems include lithium-ion stationary battery systems, electrical capacitor systems, other storage technologies, and systems that integrate with photovoltaic panels. This session provides an overview of these systems and discusses new code requirements for ESS in the 2018 and 2021 editions of the *International Fire Code*® (IFC®) and *International Residential Code*® (IRC®), and the new NFPA 855 ESS standard.

**HVAC and Mechanical Code Basics for Combination Inspectors** — Session 79

**CEUs:** 0.8  
**Instructor:**  
 Dan  
 Rademacher

This seminar is intended for individuals with a background in a different trade who find themselves having to do mechanical inspections. With the increasing budgetary and staffing restraints being experienced on code enforcement departments across the country, more and more jurisdictions are having to rely on performing combination inspections rather than having dedicated inspectors for each trade. This seminar is designed to provide the inspection and code basics for combination inspectors who find themselves inspecting mechanical systems but have a background in another trade. The basics of the *Uniform Mechanical Code* will be discussed and organized in a manner that assists combination inspectors in understanding and enforcing these codes.

**Leadership TRANSFORMATION – Innovation and Change** — Session 80

**CEUs:** 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 81

**CEUs:** 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.

**Chapter 18 – Deep Foundations** — Session 82

**CEUs:** 0.4  
**Instructor:**  
 Chris Kimball

This seminar will follow the requirements of Chapter 18 of the 2015 & 2018 *International Building Code*® (IBC®) for deep foundations and will be catered to the plan reviewer and building inspector. Topics that will be covered include geotechnical report requirements, submittal requirements and special inspection requirements. Specific requirements for common non-proprietary and proprietary systems frequently used in the United States will be discussed (i.e. micropiles, helical piers, rammed aggregate piers, etc.).

**Bracing of Non-Structural Components** — Session 83

**CEUs:** 0.4  
**Instructor:**  
 Chris Kimball

Nonstructural damage has historically accounted for 25-50% of the damage observed in recent earthquakes in the United States. This seminar will clarify what non-structural components are, what the 2015 & 2018 codes require in regards to seismic restraint, and will discuss typical bracing schemes. A major portion of the discussion will revolve around what building departments should require during plan review and what they should be looking for in the field during inspections. Many jurisdictions are beginning to enforce code requirement more stringently. The seminar will also discuss the difficulties that these jurisdictions have had, simple approaches to enforcement, and how to create a win-win scenario for the jurisdiction and the building owner.

**IBC Performance-Based Means of Egress Design** — Session 84**Ph.D.****CEUs:** 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 of the *International Building Code®* (IBC®). 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.

**Bed Bugs and the Code Enforcement Officer** — Session 85**CEUs:** 0.4  
**Instructor:**  
Cecilia Sevilla

Learn the ins and outs of these “pesty” critters, life cycle, and effects on tenants. You will gain knowledge on what to look for to assist you in identifying an infestation, how our codes play a role in enforcement, and commonly used abatement/eradication procedures.

**How To Get The Most Out of the IPMC** — Session 86**CEUs:** 0.4  
**Instructor:**  
Cecilia Sevilla

Learn how to effectively use the *International Property Maintenance Code®* (IPMC®) while during enforcement. You will have an opportunity to learn of the crossover between codes and how this one small code book will give you everything you need to proceed with enforcement of residential and commercial properties and much, much more.

**2018 IBC Exterior Wall and Opening Protection** — Session 87**CEUs:** 0.4  
**Instructor:**  
Jay Woodward

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 88**CEUs:** 0.4  
**Instructor:**  
Jay Woodward

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.

***Marijuana and the Building Code*** — Session 89

**CEUs:** 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.

***Report Writing for Code Officials*** — Session 90

**CEUs:** 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 91

**CEUs:** 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.

## 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 4, 2019

### 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](http://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](mailto: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 4, 2019 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. Please note that each registration may only be substituted with one person.

## CONTINUING EDUCATION INFORMATION

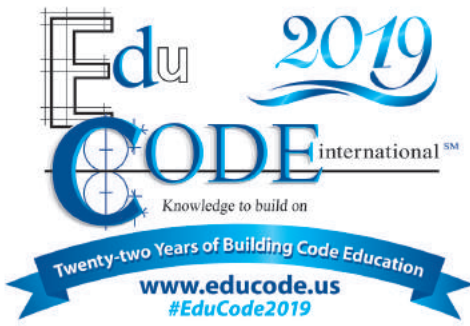
All EduCODE sessions are recognized by ICC's Preferred Provider Program for CEUs toward maintenance of your ICC certifications. Please check the website for updated AIA approvals at [www.iccsafe.org/educode](http://www.iccsafe.org/educode). Check with your local licensing board for additional CEU requirements.



All courses are  
ICC Preferred Provider approved.

## CERTIFICATION & TESTING

- ♦ Exams will be offered on Wednesday, 3/13, and Thursday, 3/14, at 5:00 p.m.
- ♦ Please check [www.iccsafe.org/educode](http://www.iccsafe.org/educode) for more detailed information including tests offered and pricing.



Please use this form if you are submitting your registration by Mail and paying by check, purchase order or are an ICC Member who wants to be billed. To pay by credit card, purchase order or to be billed, Register online at [www.iccsafe.org/educode](http://www.iccsafe.org/educode).

ICC Membership Number:				<p><b>EARLY REGISTRATION INFORMATION</b></p> <ul style="list-style-type: none"> <li>• Best Value (\$\$) – Full-week Registration</li> <li>• Early Registration Deadline: February 4, 2019</li> <li>• \$200—per Day</li> <li>• \$800—Full Five-Day Week</li> </ul> <p><b>LATE REGISTRATION INFORMATION</b></p> <ul style="list-style-type: none"> <li>• \$250—per Day</li> <li>• \$1000—Full Five-Day Week</li> </ul> <p><b>ON-SITE REGISTRATION</b></p> <ul style="list-style-type: none"> <li>• \$250—per Day</li> <li>• \$1000—Full Five-Day Week</li> </ul> <p><u>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.</u></p> <p><b>Mail to:</b> EduCODE Registrar, International Code Council Central Regional Office 4051 Flossmoor Road Country Club Hills, Illinois 60478</p> <p><b>Contact the International Code Council at:</b> 1-888-422-7233, extension 4333 or <a href="mailto:jfranklin@iccsafe.org">jfranklin@iccsafe.org</a></p>
First Name:		Middle Initial:		
Last Name:				
Job Title for Badge:				
Jurisdiction/Organization:				
Address:				
City:				
State/Province:				
Zip Code:				
Country:				
E-Mail:				
Day Telephone:		Extension:		
Home Telephone:		Fax Number:		
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 02/4/19)	\$
I am attending less than 5 days :	\$200 per day (early)	or	\$250 per day (late, after 02/4/19)	\$
Total Book Fees:				\$

#### PAYMENT OPTIONS

<b>TOTAL:</b>		\$
Bill Me (Code Council Members only)	Member #:	
Payment Enclosed (Checks payable to: International Code Council)		

# *Save the Date!*

## *EduCode 2020*

**March  
9-13** | **2019**

*The Orleans Hotel and Casino  
4500 West Tropicana Avenue  
Las Vegas, NV, 89103*

**International Code Council's 2019 Annual Conference  
and Group B Public Comment Hearings**

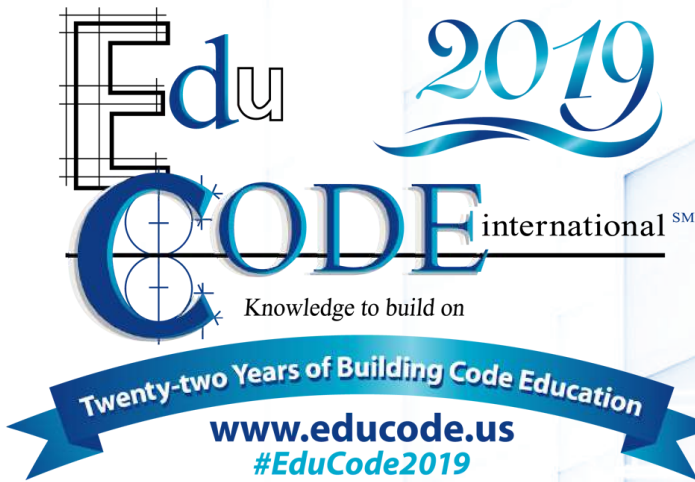
Rio Hotel and Convention Center  
3700 W Flamingo Road  
Las Vegas, NV 89103

*Annual Conference*

**October  
20-23** | **2019**

*Public Comment Hearings*

**October  
23-30** | **2019**



## EduCODE International Conference & EXPO 2019

March 11-15, 2019

THE ORLEANS HOTEL | LAS VEGAS, NEVADA

[www.iccsafe.org/EduCode](http://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 4333 or online at [www.iccsafe.org/EduCode](http://www.iccsafe.org/EduCode)
- Best Value \$\$ — Full week Registration
- Deadline Feb. 4, 2019

#### ► 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

- Sunday: 5:00 P.M. – 7:00 P.M., M-F: 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](http://www.orleanscasino.com/groups)
- Use EduCODE Group Code **A9ECC03**
- Deadline Feb. 6, 2019



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



PREFERRED  
EDUCATION  
PROVIDER

[www.snicc.org](http://www.snicc.org)  
[www.educode.us](http://www.educode.us)