

# Edu 2020

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**March 9-13, 2020**  
**THE ORLEANS HOTEL**  
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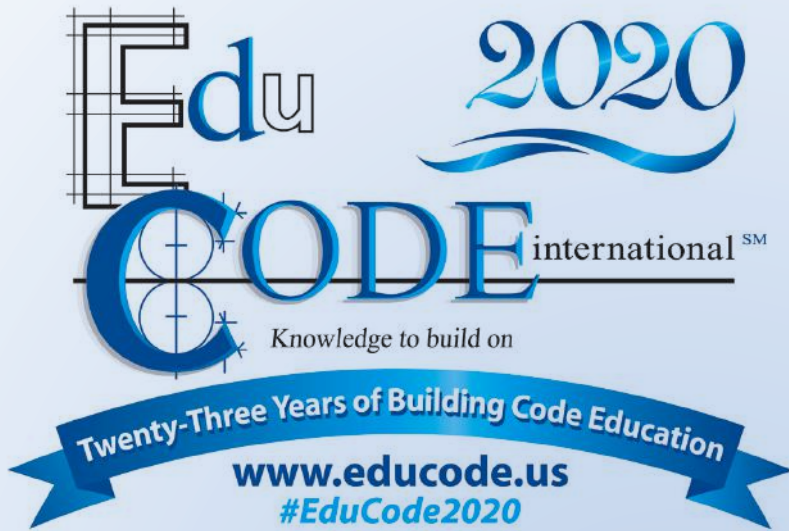


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People Helping People Build a Safer World®



Welcome to EduCode 2020!

EduCode 2020 is our 23rd year of providing industry renowned education, training, networking and experience for everyone who attends. Designed around your comments, suggestions and needs, EduCode has become the best educational training for the code professional anywhere in the country. EduCode offers over 90 different course selections to cover every need of the code professional.

Presented by the Southern Nevada Chapter of the International Code Council, EduCode 2020 provides all courses at one location, all are ICC Preferred Provider certified and many are AIA certified. Attendees have numerous opportunities to brainstorm and share ideas, concepts, problems, issues and thoughts with instructors, industry professionals, ICC staff and fellow code professionals alike.

Whether attending for one day or the entire week your experience will be beneficial, rewarding and fun! Our many networking events are designed to bring participants, instructors, industry representatives and staff together, outside of the classroom, in relaxed, informal and fun settings to further the EduCode experience.

I look forward to meeting each and every one of you at EduCode so please stop by and say hello! If you have any questions, do not hesitate to ask any EduCode volunteer as we are there to help make your experience the best it can be. Once again, welcome to EduCode 2020. We are glad you are attending!

Sincerely,

Alan Ellis  
EduCode Director



**2018 IBC Essentials** — Session 1

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

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 and 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:**  
 Jay Woodward

This seminar 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 professionals 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.

**2017 NEC Changes for Combination Inspectors** — Session 3

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

Join us for an in-depth discussion of the major changes to the 2017 National Electrical Code® that will have the most impact to construction and inspections. Time will be taken to discuss the reason behind the changes, how the relevant Code requirements have changed over the years, and how to apply the changes to construction and inspect for compliance. This seminar is targeted to attendees working in jurisdictions that have recently adopted or are about to adopt the 2017 NEC®. Attendees should bring a 2017 NEC.

**2018 IFC Performing Commercial Fire Inspections** — Session 4

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

This seminar presents the process of conducting commercial fire inspections, following the provisions and requirements of the 2018 International Fire Code®. Specifically, the seminar provides participants with checklists that enable those performing commercial fire inspections to determine whether the materials, design, construction, installation and location of building components comply with the code.

**Residential Accessibility** — Session 5



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

This seminar is devoted to residential accessibility requirements using the 2018 International Building Code and ICC A117.1. Topics will include scoping for accessible design, Accessible, Type A and Type B residential requirements. The seminar will provide Federal accessibility background to help the student negotiate the maze of regulations and their base intent in the IBC.

**IRC Chapter 3 Overview** — Session 6



**CEUs:** 0.8  
**Instructor:**  
 Gil Rossmiller

This seminar explores the major provisions of Chapter 3, Building Planning of the 2018 International Residential Code. The presentation includes detailed discussions of the provisions addressing the following issues: fire-resistant rated construction, means of egress, smoke and carbon monoxide alarms and glazing. The seminar is designed to introduce the provision of the code to the user.

**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 (2019 Ed.) standard

**2018 UMC/IMC Code Changes** — Session 8



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

Keep up-to-date on the Uniform Mechanical Code ® (UMC®)/ International Mechanical Code ® (IMC®) by learning about the changes from 2015 to the 2018 edition. Each notable change to the code will be discussed in depth so attendees 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



**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 that are able to relay instructions, vision and more, can connect with others, enhance personal productivity and avoid unneeded conflicts. This seminar will enhance the ability to listen, communicate clearly, manage communication tone, match communication style, and control non-verbal 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.

**2018 IRC Accessory Structures, Decks, Carports and Patio Covers** — Session 10

**CEUs:** 0.8  
**Instructor:**  
 Todd Snider

This seminar will focus on the conventional construction requirements for detached accessory structures (i.e. garages, sheds, etc.), residential decks, carports, and patio structures to ensure compliance with the International Residential Code. 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 IRC and will also help building inspectors to know what to look for in the field.

**Combustible Decorative Features & Unique Themed Environments** — Session 11

**CEUs:** 0.8  
**Instructor:**  
 Doug Evans

This seminar covers notable fire losses, present code requirements and applicable fire tests, as well as provides a way to think about unique applications to achieve a reasonable level of fire safety. Tourist destinations include unique themed environments and contain artificial trees, large statues, giant signs/LED screens, hand painted canvas murals adhered to walls and even buildings within the main structures. The materials used are most apt to be regulated by Chapters 8 and 26 of the IBC as Interior finishes and plastics in building construction, but a number of additional requirements apply. These regulations along with applicable portions of the IFC and IBC are used to provide an understanding of not only those subjects, but the ability to extrapolate to unique applications.

**Games People Play – Code Enforcement and Game Theory** — Session 12

**CEUs:** 0.4  
**Instructor:**  
 Daniel Anderson

This seminar will introduce you to the emerging science known as Game Theory, and help you to categorize resistance at the door, into the various games people play (False Alternatives, Brinksmanship, Chicken, Prisoners Dilemma, Pursuit and Evasion, etc.) You will learn: The common strategies used by residents (consciously or unconsciously); The four game elements that must be established for strategic advantage; Why flexibility is not always a good strategy; The importance of the “First Mover Advantage” and how to maintain it, How to identify what game you are in and some strategies to change the game-when the game is not to your advantage.

**10 Steps to a Graffiti Free City Part I** — Session 13

**CEUs:** 0.4  
**Instructor:**  
 Rick Stanton

Part I of this seminar will present an in-depth look at all of the strategic information you will need to perform a successful graffiti vandalism investigation. Included are the best solutions for graffiti on private property: graffiti ordinances that work, how to build a successful anti-graffiti collaborative partnership, graffiti prevention and alternatives, how to establish an effective “package of penalties” and tips and tricks for catching graffiti vandals.



**2018 IBC Fire and Life Safety Principles** — Session 14

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

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 the 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.

**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 seminar 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.

**Commercial Building Inspector Test Academy – Day 1** — Session 17

**CEUs:** 2.4  
**Instructors:**  
 George Mann  
 & Terrell Stripling

The Commercial Building Inspector Test Academy is designed to assist participants with taking the B2 certification exam. The test academy will cover in detail the topics of the exam. Throughout the academy participants will be given an opportunity to answer questions that reference the exam resources. The topics that will be covered: general administration; building planning; footings and foundation; floor construction; wall construction and coverings; roof/ceiling construction, public safety and special construction as addressed in the commercial building inspector certification exam.

**Required Materials:** For this academy, you will need the 2018 International Building Code and either the ACI 318 OR Concrete Manual (any edition).

**NOTE: Exam not included but can be purchased separately.**

**2018 IBC Significant Changes** — Session 18

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

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 19

**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.

**How to use the NEC for Combination Inspectors** — Session 20

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

This seminar will focus on learning how to find and apply code requirements in the National Electrical Code®. The most commonly used rules will be discussed, including working space, load calculations, grounding and bonding, conductor ampacity, and more. Discussion will include how to interpret NEC® language and how to find applicable requirements that might be in multiple locations in the Code. Attendees will be given time in class to complete activities. This seminar is targeted to combination inspectors and electrical professionals that are new to the industry. Attendees should bring a 2017 (or 2020) NEC and a calculator.

**2018 IFC Essentials** — Session 21

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

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.

**Commercial Accessibility**— Session 22

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

This seminar provides basic concepts of disabled accessible design and construction using the 2018 International Building Code and ICC A117.1 as it relates to non-residential structures. 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. Application of accessibility requirements for existing buildings will be discussed.

**IRC Plan Review**— Session 23

**CEUs:** 0.8  
**Instructor:**  
 Gil Rossmiller

This seminar is designed to provide a broad overview of the process for residential plan review, this 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 insure code compliance of the homes built in your jurisdiction.

**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 (2019 Ed.) standard

**2018 UPC/IPC Code Changes** — Session 24

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

Keep up-to-date on the Uniform Plumbing Code ® (UPC®)/ International Plumbing Code ® (IPC®) by learning about the changes from 2015 to the 2018 edition. Each notable change to the code will be discussed in depth so attendees 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 – Team Member Engagement** — Session 25

**CEUs:** 0.4  
**Instructor:**  
 Tim Schneider

Unlock half of your influence with team members with this learning program. Team members that 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 program.



**Leadership IMPACT – Coaching** — Session 26

**CEUs:** 0.4  
**Instructor:**  
 Tim Schneider

At the heart of great leaders is a great coach. A person that 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.

**Multi Family Construction** — Session 27

**CEUs:** 0.8  
**Instructor:**  
 Bill Clayton

This seminar is an overview of the requirements for multi-family dwellings in the 2018 International Building Code. Type V-A construction may be the most difficult type of construction to build a structure by. This seminar discusses the design, construction and inspection of Group R-2 occupancies including, building planning, fire-resistive rated construction, fire protection requirements and means of egress requirements.

**Fire-Retardant-Treated Wood and Today's Building Codes** — Session 28

**CEUs:** 0.4  
**Instructor:**  
 Mike Eckhoff

Recent national code changes, combined with the current construction boom, have increased the number of applications and the demand for code-compliant, impregnated with chemicals, fire-retardant-treated wood (FRTW). Through an AIA-approved (HSW credit), interactive lecture supported by short videos, historical case studies, and in-class demonstrations, participants will learn about: the history of FRTW, how it is produced, how to identify code-compliant FRTW in the field, and where FRTW can be used per the IBC/NFPA, including the most recent 2018 code changes. Participants will also learn about wildland-urban interface (WUI) applications via the 2018 IWUIC to increase structural fire resistance.

**RCSC/AISC Structural Bolting** — Session 29

**CEUs:** 0.4  
**Instructor:**  
 Sunny Ghadban

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.

**10 Steps to a Graffiti Free City – Part II** — Session 30

**CEUs:** 0.4  
**Instructor:**  
 Rick Stanton

Part II of this seminar details how to conduct a citywide graffiti survey, how to recruit a “graffiti fighting army” of volunteers, state of the art graffiti abatement strategies for success, ineffective anti-graffiti efforts and treasure chests of graffiti related topics not covered elsewhere in this seminar which will further the information necessary to have a successful anti-graffiti program.

**Transitioning from Law Enforcement to Code Enforcement** — Session 31

**CEUs:** 0.4  
**Instructor:**  
 Kelvin Beene

This seminar helps law enforcement and or military personnel transition into code enforcement. There are many positive and negative behaviors that can affect the ability of working as a code officer. This seminar will separate those behaviors to ensure a seamless transition to code enforcement.

**2018 IBC Exterior Walls and Opening Protection** — Session 32

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

This seminar addresses the various provisions in the *International Building Code*® (IBC®) dealing with exterior wall and opening protection. Although such walls are primarily regulated due to their location on the lot, many 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 Types of Construction Classification and Application** — Session 33

**CEUs:** 0.4  
**Instructor:**  
 Doug Thornburg

Together with occupancy classification, one of the most critical steps in analyzing a building for code compliance is classifying it for type of construction purposes. This seminar will address the two distinct aspects of construction type: 1) determination of the appropriate types of construction based on building occupancy, height and area, and 2) identification of the construction and fire-resistance-rated features associated with the nine individual construction types. The permissible use of combustible materials in Type I and II noncombustible buildings will also be addressed.

***The Complete Permit Technician – Day 1*** — Session 34**CEUs:** 1.6**Instructor:**

Steve Burger

This two-day seminar 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 seminar is also beneficial for preparing for the Permit Technician Certification Exam.

**Required Materials:** Calculator, 2018 International Building Code®, 2018 International Zoning Code®, Legal Aspects of Code Administration

**Recommended Materials:** Basic Code Enforcement

***Legal Aspects of Code Administration*** — Session 35**CEUs:** 0.8**Instructor:**

Bob Church

This seminar 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.

***Commercial Building Inspector Test Academy – Day 2*** — Session 17**CEUs:** 2.4**Instructors:**George Mann  
& Terrell Stripling

The Commercial Building Inspector Test Academy is designed to assist participants with taking the B2 certification exam. The test academy will cover in detail the topics of the exam. Throughout the academy participants will be given an opportunity to answer questions that reference the exam resources. The topics that will be covered: general administration; building planning; footings and foundation; floor construction; wall construction and coverings; roof/ceiling construction, public safety and special construction according to the commercial building inspector certification exam.

**Required Materials:** For this academy, you will need the 2018 International Building Code and either the ACI 318 OR Concrete Manual (any edition).

**NOTE: Exam not included but can be purchased separately.**



**2018 IRC Essentials** — Session 36

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

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 provisions as well as to begin to develop a procedure for applying them.

**2018 IBC Significant Structural Changes** — Session 37

**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 38

**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.

**What's New in the 2020 NEC** — Session 39

**CEUs:** 0.8  
**Instructors:**  
 Chris and  
 Randy Hunter

This is a fast-paced seminar that will cover major changes in the 2020 National Electrical Code®. Photos and illustrations will be used to show how the NEC® is changing and how those changes will affect electrical installations. A few of the changes include: GFCI protection expansion, emergency disconnects for dwellings, changes to lighting load calculations, new articles, and the extensive reorganization of Article 310. Attendees should bring a 2020 NEC.

**2018 IFC Significant Changes** — Session 40

**CEUs:** 0.8  
**Instructor:**  
 John Swanson

This seminar 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 importantly, assist them in understanding the reasoning behind the changes. It is also a valuable resource for jurisdictions in their code-adoption process.

**IEBC Overview** — Session 41



**CEUs:** 0.8  
**Instructor:**  
 Bill Clayton

This seminar addresses the relationship of the 2018 International Existing Building Code to existing buildings. The seminar focuses on the fundamental requirements on an existing structure that undergoes repair work, alteration, renovation activity or construction of an addition, and the effect of a change in the building’s occupancy classification. Discussion will also include the “Performance Compliance Alternatives” method of evaluating a building.

**Residential Inspections** — Session 42



**CEUs:** 0.8  
**Instructor:**  
 Gil Rossmiller

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

**Sprinkler Plan Review** — Session 43



**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 2019 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 (2019 Ed.), architectural scale, calculator with exponential math capabilities

**2018 UMC/IMC Workshop** — Session 44



**CEUs:** 0.4  
**Instructor:**  
 Tim Collings

Apply your code knowledge and expertise in this dynamic, hands-on workshop. Attendees will examine drawings of mechanical 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.

**2018 UPC/IPC Workshop** — Session 45



**CEUs:** 0.4  
**Instructor:**  
 Tim Collings

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.

**Leadership IMPACT – Self-Mastery** — Session 46

**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.

**Design of Wood Shear Walls and Diaphragms** — Session 47

**CEUs:** 0.4  
**Instructor:**  
 Douglas  
 Thompson

This seminar will cover all types of wood light-framed shear wall designs (segmented, perforated and Force-Transfer-Around-Openings). Design assumptions and design examples will be presented for the three types of shear walls including multi-story shear walls. Comparative step-by-step design examples will be presented for both the SEAOC/Thompson method used the Structural Seismic Design Manual published by ICC and the Diekmann Method. Presentation will also cover the design of wood structural panel diaphragms and go over often missed areas such as member sizes and splitting issues. Changes in shear wall designs diaphragms related to the new 2018 IBC/2015 SDPWS will also be discussed as well as upcoming changes in the 2021 SDPWS including cantilever diaphragms.

**Mass Timber Structural Design/Mixed-Use Building Analysis** — Session 48

**CEUs:** 0.4  
**Instructor:**  
 Janelle  
 Leafblad

**Mass Timber Structural Design**

This seminar will provide a detailed look at the structural design processes associated with a variety of mass timber products, including glued-laminated timber (glulam), cross-laminated timber (CLT), and nail-laminated timber (NLT). Applications for the use of these products in gravity force-resisting systems under modern building codes will be discussed. Other technical topics will include mass timber floor panel vibration criteria, connection options and design considerations, and an introduction to lateral systems common in mass timber buildings. This session will also discuss structural design of mass timber elements under fire conditions.

**Mixed-Use Building Analysis**

To simplify code analysis associated with these buildings, this presentation covers logical, code-compliant steps for a number of topics, including determining allowable building size, separation needs, detailing requirements, and the application of special provisions. With an emphasis on the use of wood framing in Construction Types III, IV and V, examples, calculations, and details will be presented to demonstrate how to navigate the various code requirements associated with mixed-use buildings while maximizing building size and meeting fire and life safety needs.



**Unusual Structures** — Session 49



**CEUs:** 0.8  
**Instructor:**  
 Todd Snider

The focus of this seminar will be to discuss several types of unusual structures that a building department may see from time to time. This seminar will discuss projects such as podium structures, precast concrete sandwich panels, ICF systems, straw-bale construction, high-ropes courses, adobe construction, performance-based design, deep foundations, foundation improvement methods, rack-supported buildings, billboards, as well as other items. The class will focus on the structural requirements that should be reviewed to ensure life-safety provisions are met during the plan review phase as well as items to focus on during the inspection phase.

**Animal Care and Control – Code Enforcement Team Tactics** — Session 50



**CEUs:** 0.4  
**Instructor:**  
 Kelvin Beene

This seminar discusses the importance of both entities collaborating to improve the safety and security of animals and the responsibilities of pet ownership in your city. The secondary focus of this class is the identification of animal cruelty and your requirement to address cruelty issues.

**Zoning 101** — Session 51



**CEUs:** 0.4  
**Instructors:**  
 Kelvin Beene and  
 Tana Bryant

This seminar is a basic course in the theory of Zoning. It details the why and how's of Zoning. This seminar will develop your zoning skills by enhancing the interpretation of zoning ordinance and the rationale behind the creation of zoning. This seminar will also help you navigate the 2018 International Zoning Code, whether it is to prep for an exam or to enforce the ICC Zoning Code.

**A117.1-2017 Significant Changes** — Session 52



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

This seminar offers an overview and in-depth coverage of the changes from the 2009 to the 2017 A117.1 Accessibility Standard. It identifies important changes in organization, accessibility standard requirements and the applicability of these requirements to design, plan review and inspection.

**2018 IBC Use of Fire and Smoke Separations** — Session 53



**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.

Class Topics	Monday March 9	Tuesday March 10	Wednesday March 11	Thursday March 12	Friday March 13
<b>I-CODES</b>	2018 IBC Essentials <b>Session 1</b> FULL DAY	2018 IBC Significant Changes <b>Session 18</b> FULL DAY	2018 IRC Essentials <b>Session 36</b> FULL DAY	2018 IRC Significant Changes <b>Session 55</b> FULL DAY	2018 IBC Mixed Occupancies <b>AM Session 76</b> Type A & B Units in Multi-Family Dwellings <b>PM Session 77</b>
	2018 IBC Means of Egress <b>Session 2</b> FULL DAY	2018 IRC Building Safety Features <b>Session 19</b> FULL DAY	2018 IBC Significant Structural Changes <b>AM Session 37</b> Structural Loads and Load Paths <b>PM Session 38</b>	Introduction to the 2021 IBC, IRC & IFC <b>AM Session 56</b> Application & Administration of the I-Codes <b>PM Session 57</b>	2018 IRC & IBC Safety Glazing Provisions <b>AM Session 78</b> 2018 ISPSC Design, Installation & Inspection Principles <b>PM Session 79</b>
<b>ELECTRICAL</b>	2017 NEC Changes for Combination Inspectors <b>Session 3</b> FULL DAY	How to Use the NEC for Combination Inspectors <b>Session 20</b> FULL DAY	What's New in the 2020 NEC <b>Session 39</b> FULL DAY	Electrical Inspections for Combination Inspectors <b>Session 58</b> FULL DAY	PV & Energy Storage <b>Session 80</b> FULL DAY
<b>Building &amp; Fire Safety Protection &amp; Principles</b>	2018 IFC Performing Commercial Fire Inspections <b>Session 4</b> FULL DAY	2018 IFC Essentials <b>Session 21</b> FULL DAY	2018 IFC Significant Changes <b>Session 40</b> FULL DAY	2018 IFC & IBC Hazardous Materials <b>Session 59</b> FULL DAY	2018 IBC & IFC Fire Protection Systems <b>Session 81</b> FULL DAY
<b>Building Plan Review and Inspection</b>	Residential Accessibility <b>Session 5</b> FULL DAY	Commercial Accessibility <b>Session 22</b> FULL DAY	IEBC Overview <b>Session 41</b> FULL DAY	Fire-Resistant-Rated Construction <b>Session 60</b> FULL DAY	Marijuana & the Building Code <b>Session 82</b> FULL DAY
<b>Building Plan Review &amp; Inspections</b>	IRC Chapter 3 Overview <b>Session 6</b> FULL DAY	IRC Plan Review <b>Session 23</b> FULL DAY	Residential Inspections <b>Session 42</b> FULL DAY	IBC Plan Review <b>Session 61</b> FULL DAY	Commercial Inspections <b>Session 83</b> FULL DAY
<b>Fire Protection Systems</b>	Installation of Sprinkler Systems <b>Session 7</b> TWO DAYS		Sprinkler Plan Review <b>Session 43</b> FULL DAY	Residential Sprinkler Systems <b>Session 62</b> FULL DAY	Fire Protection of Commercial Cooking Operations <b>Session 84</b> FULL DAY
<b>Plumbing &amp; Mechanical</b>	2018 UMC/IMC Code Changes <b>Session 8</b> FULL DAY	2018 UPC/IPC Code Changes <b>Session 24</b> FULL DAY	2018 UMC/IMC Workshop <b>AM Session 44</b>	Indoor Cannabis Cultivation Facilities <b>Session 63</b> FULL DAY	Preventing Gas Installation Disasters & Inspecting After a Disaster <b>AM Session 85</b>
			2018 UPC/IPC Workshop <b>PM Session 45</b>		2018 UMC Consideration for Clean Room Environments <b>PM Session 86</b>
<b>Leadership, Management &amp; Personal Development</b>	Leadership IMPACT - Communications <b>Session 9</b> FULL DAY	Leadership IMPACT - Team Member Engagement <b>AM Session 25</b>	Leadership IMPACT - Self-Mastery <b>Session 46</b> FULL DAY	Leadership SUCCESS - Decision Making & Ethics <b>AM Session 64</b>	Leadership TRANSFORMATION - Innovation & Change <b>AM Session 87</b>
		Leadership IMPACT - Coaching <b>PM Session 26</b>		Leadership SUCCESS - Personal Power & Relationships <b>PM Session 65</b>	Leadership TRANSFORMATION - Success Skills for Leaders <b>PM Session 88</b>

Class Topics	Monday March 9	Tuesday March 10	Wednesday March 11	Thursday March 12	Friday March 13
Architectural Design, Geotechnical & Engineering	2018 IRC Accessory Structures, Decks, Carports & Patio Covers <b>Session 10</b> FULL DAY	Multi-Family Construction <b>Session 27</b> FULL DAY	Design of Wood Shear Walls & Diaphragms <b>AM Session 47</b>	Special Inspections & Testing <b>Session 66</b> FULL DAY	2018 IBC Seismic Provisions for Structural Steel Inspectors & Fabrications <b>AM Session 89</b>
			Mass Timber Structural Design/Mixed-Use Building Analysis <b>PM Session 48</b>		Basics to Grading & Understanding the Geotechnical Requirements <b>PM Session 90</b>
Advanced IBC and Structural Topics	Combustible Decorative Features & Unique Themed Environments <b>Session 11</b> FULL DAY	Fire-Retardant-Treated Wood & Today's Building Code <b>AM Session 28</b>	Unusual Structures <b>Session 49</b> FULL DAY	Design of Post Tensioning Building Structures <b>AM Session 67</b>	Simplified Structural Plan Review <b>Session 91</b> FULL DAY
		RCSC/AISC Structural Bolting <b>PM Session 29</b>		Design of Post Tensioning Slabs-on-Ground Foundations <b>PM Session 68</b>	
Code Enforcement	Games People Play - Code Enforcement & Game Theory <b>AM Session 12</b>	10 Steps to a Graffiti Free City Part 2 <b>AM Session 30</b>	Animal Care & Control - Code Enforcement Team Tactics <b>AM Session 50</b>	Mental Illness & the Code Official <b>AM Session 69</b>	Housing Inspection 101 w/Virtual Walk Thru <b>AM Session 92</b>
	10 Steps to a Graffiti Free City Part 1 <b>PM Session 13</b>	Transitioning from Law Enforcement to Code Enforcement <b>PM Session 31</b>	Zoning 101 <b>PM Session 51</b>	VRBO's & Air BnB's <b>PM Session 70</b>	Identifying & Understanding the Hoarding Disorder <b>PM Session 93</b>
Building Specialties	2018 IBC Fire & Life Safety Principles <b>Session 14</b> FULL DAY	2018 IBC Exterior Walls and Opening Protection <b>AM Session 32</b>	A117.1-2017 Significant Changes <b>AM Session 52</b>	Firestopping - Plan Review & Inspection <b>Session 71</b> FULL DAY	2018 IBC Wood Framed Shear Walls <b>AM Session 94</b>
		2018 IBC Types of Construction Classification & Application <b>PM Session 33</b>	2018 IBC Use of Fire & Smoke Separations <b>PM Session 53</b>		Principles of Building Materials <b>PM Session 95</b>
Current Topics	Inspector Skills <b>Session 15</b> FULL DAY	The Complete Permit Technician <b>Session 34</b> TWO DAYS		Vertical Building Components in Multi-Story Structures <b>AM Session 72</b>	Tall Mass Timber Buildings <b>Session 96</b> FULL DAY
				Fire Resistance, Opening & the Five Walls <b>PM Session 73</b>	
Building Official and Energy Design & Specialties	So You Want to Be A Building Official <b>Session 16</b> FULL DAY	Legal Aspects of Code Administration <b>Session 35</b> FULL DAY	Building Science Meets Energy Codes <b>Session 54</b> FULL DAY	2018 IECC Residential Real World Applications <b>Session 74</b> FULL DAY	2018 IECC Commercial Real World Applications & ASHRAE 90.1 <b>Session 97</b> FULL DAY
Certification Test Academy and More	Commercial Building Inspector Test Academy <b>Session 17</b> THREE DAYS			2018 IPMC Overview <b>Session 75</b> FULL DAY	Report Writing for Code Officials <b>Session 98</b> FULL DAY



***The Complete Permit Technician – Day 2*** — Session 34**CEUs:** 1.6**Instructor:**

Steve Burger

This two-day seminar 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 seminar is also beneficial for preparing for the Permit Technician Certification Exam.

**Required Materials:** Calculator, 2018 International Building Code®, 2018 International Zoning Code®, Legal Aspects of Code Administration

**Recommended Materials:** Basic Code Enforcement

***Building Science Meets Energy Codes*** — Session 54**CEUs:** 0.8**Instructor:**

Les Lazareck

Enforcement of the 2012-2018 IECC has moved from prescriptive requirements to an understanding of the intent of the code. Therefore, we need to better understand the Building Science so we realize the connection between efficiency, durability, safety and comfort. This seminar will walk you through the 2018 IECC, the basic building science incorporated in its compliance paths and the connection between energy and specific sections of the IRC.

***Commercial Building Inspector Test Academy – Day 3*** — Session 17**CEUs:** 2.4**Instructors:**

George Mann

&amp; Terrell Stripling

The Commercial Building Inspector Test Academy is designed to assist participants with taking the B2 certification exam. The test academy will cover in detail the topics of the exam. Throughout the academy participants will be given an opportunity to answer questions that reference the exam resources. The topics that will be covered: general administration; building planning; footings and foundation; floor construction; wall construction and coverings; roof/ceiling construction, public safety and special construction according to the commercial building inspector certification exam.

**Required Materials:** For this academy, you will need the 2018 International Building Code and either the ACI 318 OR Concrete Manual (any edition).

**NOTE: Exam not included but can be purchased separately.**

**2018 IRC Significant Changes** — Session 55

**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*

**Introduction to the 2021 IBC, IRC and IFC** — Session 56

**CEUs:** 0.4  
**Instructors:**  
 Doug Thornburg  
 & John Gibson

This fast-paced program will provide an introduction to a number of important code changes that are intended to be included in the 2021 editions of several International Codes. Key additions, modifications and clarifications to the 2021 IBC, IRC and IFC will be presented in this early look at these three upcoming I-Code publications. The discussion will include both the application of the code change as well as the reasoning supporting the change.

**Application and Administration of the I-Codes** — Session 57

**CEUs:** 0.4  
**Instructors:**  
 Doug Thornburg  
 & John Gibson

Chapter 1 of each of the I-Codes is considered by many as the most important chapter in each of those publications. Although many jurisdictions modify the chapter to some degree, the fundamental concepts and principles typically remain to guide users in the code's proper application and administration. The seminar will focus on two primary areas of emphasis: 1) application of the provisions based on the concepts of minimum standard, AHJ interpretative authority, alternate methods and materials, and coordination of potential conflicting provisions; and 2) administrative functions including code official, plan review and inspector responsibilities.

**Electrical Inspections for Combination Inspectors** — Session 58

**CEUs:** 0.8  
**Instructors:**  
 Rick O'Brien  
 and Jon Lee

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 also 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 seminar 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 and IBC Hazardous Materials** — Session 59

**CEUs:** 0.8  
**Instructor:**  
 John Swanson

This seminar addresses requirements for buildings utilizing hazardous materials and requiring coordination between the fire and building codes. It reviews the requirements found in Chapters 50 through 67 of the International Fire Code® (IFC®), as well as Chapter 3, and Sections 414 and 415 of the International Building Code® (IBC®).

**Fire-Resistant-Rated Construction** — Session 60

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

This seminar focuses on those elements of buildings that are required to be fire-resistance-rated due to other provision of the code. Based on the 2018 International Building Code, provision applicable to all of the occupancies and construction types will be addressed. 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.

**IBC Plan Review** — Session 61

**CEUs:** 0.8  
**Instructor:**  
 Bill Clayton

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

**Residential Sprinkler Systems** — Session 62

**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 (2019 Ed.)  
**Recommended materials to bring:** NFPA 13R (2019 Ed.), NFPA 13 (2019 Ed.), scientific calculator

**Indoor Cannabis Cultivation Facilities** — Session 63

**CEUs:** 0.8  
**Instructor:**  
 Jeff Hatcher

This full day seminar covers plumbing, mechanical, building, fire, energy, state regulations, and limited electrical codes. The class also covers the growing process, from propagation to flowering and will help cultivators, regulators, architects, designers and engineers make sense of the myriad of regulations and special processes used in cultivation. We'll also cover new technologies for cultivation. Many mistakes are made from design deficiencies that may be code compliant, but make cultivation difficult. We'll cover how to avoid the mistakes that currently plague the industry.



**Leadership SUCCESS – Decision Making and Ethics** — Session 64

**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 65

**CEUs:** 0.4  
**Instructor:**  
 Tim Schneider

Although the word power has certain stigma attached, leaders need power to operate and to lead. This program 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 member 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 provided. 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.

**Special Inspections and Testing** — Session 66

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

This seminar will dissect the requirements of Chapter 17 of the IBC. A detailed discussion will be provided for each designated special inspection, structural testing, and structural observation item listed in the building code. Project scenarios will be provided and a roundtable discussion will be had as to what inspection and testing items would be required for each example. A substantial amount of time will be used to discuss what qualifications are necessary for special inspectors, testing agencies and structural observers. Each attendee will be provided with multiple templates that can be used to oversee the special inspection program within a jurisdiction.

**Design of Post-Tensioning Building Structures** — Session 67

**CEUs:** 0.4  
**Instructor:**  
 Miroslav  
 Vejvoda

This seminar provides attendees with an understanding of post-tensioning design and analysis, key design concepts, code requirements, and practical design with construction tips. Also discussed will be present post-tensioning systems, construction considerations, and durability aspects.

**Design of Post-Tensioning Slabs-on-Ground Foundations** — Session 68

**CEUs:** 0.4  
**Instructor:**  
 Miroslav  
 Vejvoda

This seminar is intended for structural engineers and others involved in the design of post-tensioned slabs-on-ground foundations on expansive soils. It will highlight the features of the recently published PTI DC10.5-19, Standard Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations on Expansive and Stable Soils. Practical guidance will also be provided.

**Mental Illness and the Code Official** — Session 69

**CEUs:** 0.4  
**Instructor:**  
 Barbara Burlingame  
 and Nolonda Sobel

As code officers we encounter many people that have some type of mental illness. This seminar will give you an idea on how to best deal with these issues. It will delve into certain diagnoses and give you a brief overlay of what these issues entail. For example, what is the best way for me to handle a hoarder and why do they hoard? There will be provided hotline numbers that officers can call if they need mental health assistance for a client. One of the major things as code officers that we need to deal with is our own mental health. Code officers deal with extremely rough situations at times. Ever been there when children have had to be removed from a house? Even though you know it is for the best it is still gut wrenching at times. Being abused verbally is just another day at the office. To help code officials take care of their own mental health these issues will be discussed. There will also be group exercises and other participatory exercises.

**VRBO's and Air BnB's** — Session 70

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

With the rapid growth of vacation rental websites, local governments are struggling to find the right balance between rules that maximize the economic benefits of short-term vacation rentals, while mitigating the negative impacts such as noise, trash, parking, changes in neighborhood character and decreased housing affordability. The instructor will show best practices for writing and enforcing short-term rental regulations and explain how they each enacted effective, enforceable and revenue enhancing ordinances that makes Airbnb-style rentals work for everyone in their communities.

**Firestopping – Plan Review and Inspection** — Session 71

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

This seminar is designed for Plans Examiners, Fire and Building Inspectors, Contractors, Architects, Engineers and Firestop Special Inspectors. Throughout the training, we will review the firestopping requirements of the International Building code, 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 training 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.

**Vertical Building Components in Multi-Story Structures** — Session 72

**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 73

**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 IECC Residential Real World Applications** — Session 74

**CEUs:** 0.8  
**Instructor:**  
 Les Lazareck

This seminar will address applying the 2018 IECC requirements for residential buildings in the real world. Through pictures and examples of real applications, we'll see why the residential requirements got into the code and the intent behind the provisions. This will also provide examples of frequently missed items.

**2018 IPMC Overview** — Session 75

**CEUs:** 0.8  
**Instructor:**  
 Cecilia Sevilla

This seminar provides code officials and other interested parties with the fundamental knowledge necessary to administer and enforce applicable code requirements of the 2018 International Property Maintenance Code® (IPMC®). This information will increase the participant's ability to locate, describe and apply the appropriate code sections of the IPMC in order to determine compliance or noncompliance while performing a residential or commercial inspection.



**2018 IBC Mixed Occupancies** — Session 76

**CEUs:** 0.4  
**Instructor:**  
 George Mann

Based on the provisions of IBC Section 508, 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.

**Type A and B Units in Multi-Family Dwellings** — Session 77

**CEUs:** 0.4  
**Instructor:**  
 George Mann

In Group R-2 apartment buildings, it is often necessary to provide both Type A and Type B dwelling units. This seminar will identify under what conditions Type A and B units are required, as well as the technical requirements for these specific types of dwelling units. The discussion will focus on both the scoping provisions in 2018 IBC Chapter 11, as well as the technical criteria set forth in ICC A117.1-2009.

**2018 IRC and IBC Safety Glazing Provisions** — Session 78

**CEUs:** 0.4  
**Instructor:**  
 Steve Van Note

This seminar examines the safety glazing requirements of the 2018 editions of the International Residential Code (IRC) and the International Building Code (IBC), and illustrates the application of the provisions in various scenarios. Coverage includes testing and labeling requirements, and examples of approved materials. The program identifies hazardous locations related to glazing in residential and commercial buildings, explores design choices in satisfying the code requirements, and analyzes examples of typical glazing installations for compliance with the safety glazing provisions.

**2018 ISPSC Design, Installation & Inspection Principles** — Session 79

**CEUs:** 0.4  
**Instructor:**  
 Ken Gregory

This seminar will introduce you to the 2018 International Swimming Pool and Spa Code (ISPSC). The seminar is designed to address the needs of code officials, contractors, installers, architects and pool builders. The seminar will include information regarding energy, barriers, suction entrapment and circulation systems and much more. The benefits of adopting this all-encompassing code and what it means for enforcement agencies will also be addressed. During this training, participants will be listening to lecture and viewing examples, as well as discussing the ISPSC. They will participate in activities that involve discussion and knowledge review, individually and in groups.

**PV and Energy Storage** — Session 80

**CEUs:** 0.8  
**Instructor:**  
 Mark Ode

This seminar will explain the National Electrical Code® requirements that apply to solar photovoltaic systems and energy storage systems. These evolving technologies have prompted many changes in the NEC® in recent years, and the installation rules and safety considerations are critical to safe and reliable systems. Learn about voltage and current calculations, rapid shutdown and disconnecting means, utility interconnections, grounding and bonding, and more from one of the premier experts in the electrical industry.

**2018 IBC and IFC Fire Protection Systems** — Session 81

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

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.

**Marijuana and the Building Code** — Session 82

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

This seminar will be a full exploration of the multitude of building uses and mixed uses related to the burgeoning marijuana industry, and how the codes may apply. A further examination of how the industry is reacting and adjusting to the maze of State and local regulations and becoming efficient will be addressed. This course is conducted in a forum style, with opportunities for the attendees to ask questions, compare notes, and share the solutions discovered.

**Commercial Inspections** — Session 83

**CEUs:** 0.8  
**Instructor:**  
 Bill Clayton

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

**Fire Protection of Commercial Cooking Operations** — Session 84

**CEUs:** 0.8  
**Instructor:**  
 Ed Kaminski

This is a comprehensive seminar in the hazards associated with commercial cooking and code compliance. Fuels used for cooking, the mechanisms of extinguishment, extinguishing systems, ventilation and applications are covered. Applications include the various appliances, self-contained units, high-production cooking and mobile food preparation vehicles. Attendees will be able to conduct plan reviews and apply the 2018 edition of the International Fire Code, the Standard for Wet Chemical Extinguishing Systems NFPA 17A, the Standard for Hand Portable Extinguishers NFPA 10, Standard for Ventilation Control and Fire Protection NFPA 96 and the 2018 edition of the International Mechanical Code. Commissioning and routine inspection methods also examined.

**Preventing Gas Installation Disasters and Inspecting After a Disaster** — Session 85

**CEUs:** 0.4  
**Instructor:**  
 Jeff Hutcher

This seminar will take an in-depth look at fuel gas piping system failures that had catastrophic results. There will be a focus on the causes of these system failures and what steps could have been taken to prevent such incidents. Specifically, the role of installation techniques, code compliance, inspections, and safety precautions will be reviewed in each case study. The reviews will cover the range of disasters from residential neighborhoods to industrial complexes. The second half will discuss best practices for jurisdictions and field inspectors to consider when dealing with a natural disaster such as a tornado, flood, hurricane, earthquake, etc., has struck the jurisdiction. Items to be discussed include where to start, safety, coordinating with local, state and national emergency teams, and inspecting large amounts of damaged properties in a short time.

**2018 UMC Consideration for Clean Room Environments** — Session 86

**CEUs:** 0.4  
**Instructor:**  
 Jeff Hutcher

A clean room is an environment typically used in manufacturing, including pharmaceutical products or scientific research, with a low level of environmental pollutants such as dust, airborne microbes, aerosol particles, and chemical vapors. To achieve this, special consideration must be made during the design and installation of the mechanical systems impacting these spaces. During this presentation, attendees will learn about the key UMC provisions that should be followed to create the environment that is needed for these applications.

**Leadership TRANSFORMATION – Innovation and Change** — Session 87

**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 CD's, DVD's or VHS tapes at a garage sale. Change and innovation are everywhere and successful leaders both embrace change and stimulate innovation; both personally and with their team. This seminar provides the 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 produced sustained and impacting change in the working environment.

**Leadership TRANSFORMATION – Success Skills for Leaders** — Session 88

**CEUs:** 0.4  
**Instructor:**  
 Tim Schneider

The challenges of day-to-day operational reality for leaders is a large. 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 IBC Seismic Provisions for Structural Steel Inspectors & Fabrications** — Session 89



**CEUs:** 0.4  
**Instructor:**  
 Mark Hayes

In this 4 hour seminar, participants are instructed on the Basic seismic provisions outline in the American Institute of Steel Construction (AISC) 341-16 as referenced in the 2018 edition of the International Building Code (IBC).

**Basics to Grading & Understanding the Geotechnical Requirements** — Session 90



**CEUs:** 0.4  
**Instructor:**  
 Kishan Singh

This seminar will thoroughly review laboratory basics, to include soil classifications, testing, compaction, plasticity, field basics, to include compaction fractions and tests, field classifications, plasticity and civil plan review to include basic review, contour lines, survey stakes, cuts and fill lines, natural features and excavations among other important factors required when verifying for compliance.

**Simplified Structural Plan Review** — Session 91



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

This seminar provides a step-by-step approach for performing a structural plan review to ensure that projects conform to the structural requirements of the IBC and IRC. The review process provided is strictly for residential to moderately-sized commercial projects, as larger projects may require a more extensive structural review. The seminar does not teach how to perform structural calculations, but rather explains how to verify the project's design assumptions and overall compliance with the building code. Many examples will be given throughout in addition to sample plan review comments.

**Housing Inspection 101 w/Virtual Walk-Thru** — Session 92



**CEUs:** 0.4  
**Instructor:**  
 Greg Smith

This seminar will provide the attendees with an overview of the creation and implementation of a rental inspection program within their jurisdiction and how to conduct housing inspections. Referencing the 2018 International Property Maintenance Code, the instructor will cover the basics of how to create an inspection program, how to interpret and enforce code requirements and walk through the inspection process using photos of actual violations. Attendees will interact with the presentation and the instructor by identifying code violations and applying the correct code section from the IPMC.

**Identifying and Understanding the Hoarding Disorder** — Session 93



**CEUs:** 0.4  
**Instructor:**  
 Greg Smith

This seminar will give you the tools to understand the complexity of hoarding, causes and symptoms of the disorder and hoarding behaviors. The attendee will be able to identify hoarding situations and the dangers they may cause to the resident and others. You will learn how to work with a resident displaying hoarding behaviors including examples of communication styles. You will be able to identify best practices for clean-up of the unit and the resources to help.

**2018 IBC Wood Framed Shear Walls** — Session 94



**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 shear wall design and use in light-frame wood construction using the 2018 International Building Code® (IBC®), 2015 Special Design Provisions for Wind and Seismic (SDPWS) and 2018 National Design Standard® (NDS®). This course considers shear wall design, diaphragms, chords, collectors and anchorage.

**Principles of Building Materials** — Session 95



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

This seminar intends to familiarize students with the typical materials used in building construction. The course covers material characteristics of wood, steel, concrete, masonry and soils. By the end of the course, the decisions an architect or engineer make in selecting specific materials and how it affects the construction and life of a building will be clear.

**Tall Mass Timber Buildings** — Session 96



**CEUs:** 0.8  
**Instructor:**  
 Stephen DiGiovanni

Mass timber technologies have been deployed in high-rise projects throughout the world. To address this new technology, the International Code Council formed the Ad Hoc Committee for Tall Wood Buildings. The Ad Hoc Committee proposed a total of 17 separate code proposals to introduce tall mass timber code requirements into the I-Codes. Speaker Stephen DiGiovanni served as the Chair of the Ad Hoc Committee on Tall Wood Buildings, and will discuss the use of mass timber technologies in current high-rise buildings, summarize the research studies pertinent to tall mass timber construction, and provide discussion on the application of the new mass timber code requirements.

**2018 IECC Commercial Real World Applications and ASHRAE 90.1** — Session 97



**CEUs:** 0.8  
**Instructor:**  
 Shaunna Mozingo

This seminar will address applying the 2018 IECC requirements for commercial buildings in the real world including ASHRAE 90.1. Through pictures and examples of real applications, we'll see why the commercial requirements got into the code and the intent behind the provisions. The IECC allows design of commercial buildings to either IECC or ASHRAE 90.1 provided that all the systems (envelope, mechanical, service hot water and lighting) are done to the same code or standard. With the new requirements of both, who will win the battle over code? This seminar will go over the similarities and differences between the IECC and ASHRAE 90.1 requirements, giving examples of when either may be used.

**Report Writing for Code Officials** — Session 98



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

Effective writing is vital to your career as an inspector, 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. Your writing skills can help to advance your career. This seminar provides knowledge and skills for effectively writing reports and violation notices for code professionals of all levels. 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.

## 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 3, 2020

### 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 3, 2020 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.



PREFERRED  
EDUCATION  
PROVIDER

All courses are  
ICC Preferred Provider approved.

## CERTIFICATION & TESTING

- ◆ Exams will be offered on Wednesday, 3/11, and Thursday, 3/12, 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 3, 2020</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 02/3/20)	\$
I am attending less than 5 days :	\$200 per day (early)	or	\$250 per day (late, after 02/3/20)	\$
Total Book Fees:				\$

#### PAYMENT OPTIONS

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



The Orleans Hotel & Casino  
4500 W Tropicana Avenue  
Las Vegas, NV 89103

HOTEL & CASINO • LAS VEGAS

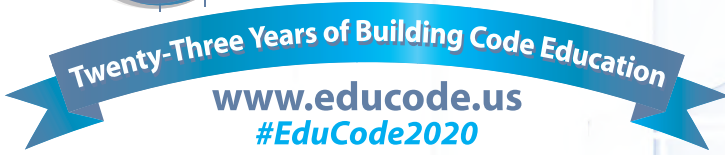
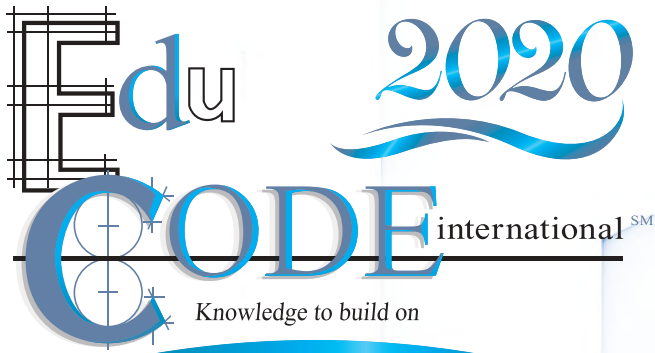
## HOTEL CHECKLIST

- To book your room, either contact The Orleans Hotel at **1-800-675-3267** and identify yourself as an attendee of the EduCODE 2019 Conference OR go to [www.ornleascasino.com/groups](http://www.ornleascasino.com/groups) and
- Use EduCODE Group Code **AEDOC01**
- Deadline to book is February 1, 2020

## RATES

- \$44 Sunday through Thursday: 3/8-3/12
- \$98 Friday and Saturday: 3/6 - 3/7 AND 3/14-3/15





# EduCODE International Conference & EXPO 2020

March 9-13, 2020

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. 3, 2020

### ► 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 **AEDOC01**
- Deadline Feb. 1, 2020



International Code Council  
Learning Center  
4051 Flossmoor Road  
Country Club Hills, IL 60478



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