



*Creating New Partnerships*

# ICC Upper Great Plains Region III Educational Institute

February 12-16, 2018  
Trade show: February 14, 2018

Oak Ridge Hotel & Conference Center, Chaska, MN  
[www.iccsafe.org/RegionIII](http://www.iccsafe.org/RegionIII)  
1-888-ICC-SAFE (422-7233), ext. 33821



**ICC Certification and  
Minnesota DLI Exams  
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**PREFERRED  
EDUCATION  
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REGION III**

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**Welcome Attendees!**

The **2018 ICC Upper Great Plains Region III Educational Institute** has become a regular mid-winter event at the **Oak Ridge Conference Center & Hotel** in Chaska, MN. The February conference will include many outstanding educational opportunities presented by some of the best instructors in their respective disciplines. The Institute had to be moved back one week because of the Super Bowl being played in Minneapolis this year. **We will be back on our regular schedule next year.**

In addition to 18 days of **International Code Council (ICC)** seminars, the International Association of Plumbing & Mechanical Officials (IAPMO) will provide 5 seminars on the MN Plumbing Code. Other topical seminars include: Management issues facing the code official, site inspection issues, plan review, fire protection systems, plumbing, mechanical, housing, and the **2018 International Codes**. A returning feature this year will be the opportunity to take **ICC certification exams** while attending the Institute. Based on the success of the past two years, this will be a permanent event at future Institutes. We are excited to announce that the MN Department of Labor & Industry will also be offering **MN certification exams** on site for Institute attendees.

Other activities during the week will include the popular Sunday hospitality room, Tuesday night dinner outing, Chapter recognition awards, Region III and AMBO membership meetings. The meeting schedules have been adjusted to accommodate regional attendance at both the membership meetings. **AMBO is offering a free day of registration to any ICC Chapter President who attends the Region III Institute.** See page 15 of this brochure for details.

Finally, this year’s Institute will proudly feature the presentation of the **Brent Snyder Education Award**. This award, given by Region III, is in honor of one of the best code instructors of our time. When approached by Region III before his death on our plans to honor his legacy Brent said, “Just make sure you give it to someone who is dedicated to training and teaching code officials.” We plan to do just that.

We are looking forward to seeing many new faces and renewing old acquaintances at the **2018 ICC Upper Great Plains Region III Educational Institute**. Make plans to join us for this unique networking and training opportunity in February.

Remember, as Brent Snyder was fond of saying, “Life is good!”

President Tom Paisley  
ICC Upper Great Plains Region III

*“United For Safer Buildings”*



# 2018 ICC Upper Great Plains Region III Educational Institute Session Descriptions



7 a.m. Sign In • 8 a.m. Sessions Begin • 12 p.m. – 1 p.m. Lunch • 4:30 p.m. Conclusion

## CODE OFFICIALS/PERMIT TECHNICIANS

### MONDAY 2/12/18

- AM**      **Situational Awareness**      **Session 801**  
This seminar assists code officers in the identification of risk factors to their safety and problems that will give them administrative strife. The important points of this seminar will broaden the thought process of code officers and train them to make sound decisions based on the facts they are presented with.
- PM**      **Zoning – The Perfect Storm**  
This seminar will provide an overview of the most common zoning issues. This seminar will also delve into the theory of zoning and its effect in our communities.  
**Instructors:** Kelvin Beene, City of Aurora, IL & Marcus Kellum, Dekalb County, GA

### MONDAY 2/12/18 AND TUESDAY 2/13/18 (2-DAY SEMINAR)

- Fundamentals of the I-Codes for Permit Technicians**      **Session 806**  
Provides the permit technician with the knowledge, skills and abilities needed to perform their jobs in code administration: legal aspects, code language, code enforcement, reading construction documents, performing plan reviews and the permitting and inspection process. Participants will become familiar with the *IBC* and the *IRC* and sharpen customer relations skills.  
**Instructor:** Roger Axel, ICC Instructor

### TUESDAY 2/13/18

- AM**      **Self-Leadership in Code Enforcement**      **Session 802**  
This seminar teaches the responsibility of managing your workload while accumulating the knowledge what you need to succeed in the workplace. This seminar will also assist you in developing insight, intuition, and the ability to harness all of your best attributes so that your value to your organization exceeds others.
- PM**      **Courtroom Testimony and Demeanor**  
This seminar will teach inspectors, officers and staff how to testify in court, understand the courtroom ethics and protocols, and the importance of the preparation of your case. This is a scenario-based seminar.  
**Instructors:** Kelvin Beene, City of Aurora, IL & Marcus Kellum, Dekalb County, GA

### WEDNESDAY 2-14-18

- AM**      **Verbal Judo-Effective Communications**      **Session 803**  
This seminar teaches code officers techniques and strategies that will allow them to effectively communicate with internal and external customers. It will also empower officers to maintain a calm demeanor when faced with a crisis situation.
- PM**      **Vacancy, Blight & Local Governments**  
Most municipalities confronted with high rates of vacancy and blight are struggling. Recently, more government officials, community leaders and neighborhood organizations have seen the light in terms of understanding the severity of the crisis. This seminar is designed to discuss solutions that local governments can take to address these issues.  
**Instructors:** Kelvin Beene, City of Aurora, IL & Marcus Kellum, Dekalb County, GA

## WEDNESDAY 2-14-18

### **Interpersonal Communications for Code Administration**

**Session 807**

This full-day seminar is designed to provide interactive training relative to improving and enhancing communication skills for working in today's multi-generational and diverse society. Participants will gain confidence in recognizing and effectively dealing with difficult communication situations that they encounter.

**Instructor:** Lt. Mark Agre, Goodhue County Sheriff's Department

## THURSDAY 2/15/18

### **AM Signage and Right-of-Way Encroachments**

**Session 804**

Right-of-way encroachments come in many forms, including signs, trailers, landscaping, vehicles, drainage structures, and more. In addition, adjoining property owners often do not realize where their property ends and public property begins. The seminar will focus on how to treat these issues fairly, uniformly, and in a manner that complies with current statutes and case law.

### **PM Creating Great Code Enforcement Officers**

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. 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.

**Instructors:** Kelvin Beene, City of Aurora, IL & Marcus Kellum, Dekalb County, GA

## FRIDAY 2/16/18

### **AM Customer Service Principles for Officers and Inspectors**

**Session 805**

Knowing how to deliver great customer service in the code enforcement setting is one of the keys to building a relationship with a community. The session explores the fundamentals of communicating with residents/customers and internal customers, whether face to face or over the telephone. How you say something is usually more important than what you say.

### **PM Back to Basics Code Enforcement Strategic Planning**

During this session, participants will explore the idea that code officers have become too concerned with complicated details or new theories; that they should concentrate on simple, important ideas or activities associated with code enforcement and compliance. This course is designed to bridge the divide and concentrate on core principles with basic project management tips and developing process-driven-work flows.

**Instructors:** Kelvin Beene, City of Aurora, IL & Marcus Kellum, Dekalb County, GA

## FRIDAY 2/16/18

### **Games People Play – Code Enforcement and Game Theory**

**Session 808**

Game Theory and Code Enforcement is a seminar class specifically aimed at the Games People Play when contacted by Code Enforcement. This seminar will introduce attendees 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, Brinkmanship, Chicken, Prisoners Dilemma, Pursuit and Evasion, etc.).

Topics will include: 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.

**Instructor:** Daniel Anderson, City of Chandler, AZ

## **BUILDING (RESIDENTIAL)**

### **MONDAY 2/12/18**

#### **2018 IRC Significant Changes**

**Session 811**

This seminar reviews, analyzes and familiarizes building officials, fire officials, plans examiners, inspectors and design professionals with many of the significant changes from the 2015 IRC to the 2018 IRC. This seminar also assists code users in identifying the specific code changes that have occurred and understanding the reasons behind the changes.

**Instructor:** John Gibson, ICC Staff

### **TUESDAY 2/13/18**

#### **2015 IRC Plan Review**

**Session 812**

Designed to provide a broad overview of the process for residential plan review, this seminar will provide the basic steps involved to complete a comprehensive review of a residence. The seminar 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.

**Instructor:** Steve Thomas, Colorado Code Consulting

### **WEDNESDAY 2/14/18**

#### **2015 IRC Inspections**

**Session 813**

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

**Instructor:** Steve Thomas, Colorado Code Consulting

### **THURSDAY 2/15/18**

#### **2015 IRC Townhouse Fire & Life Safety Principles**

**Session 814**

Participants will be better able to apply the fire and life/safety provisions for townhouse construction using the 2015 IRC. This seminar addresses issues based on exterior wall and opening protection, separation of dwelling units and means of egress. In addition, it compares the similarities and differences between the IRC and the IBC related to multiple residential dwelling construction. Through case studies, participants will be able to use practical generalizations so that they can examine critical concepts of fire separation related to two-family dwellings and townhouses in the IRC. They will also be able to correctly use and apply related tables and provisions.

**Instructor:** John Gibson, ICC Staff

## BUILDING (COMMERCIAL)

MONDAY 2/12/18

### **2015 IBC Fire & Life Safety Principles**

**Session 821**

This seminar addresses the critical concepts of the 2015 IBC regarding fire and life safety issues. 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. The content addresses issues that are necessary for many designs and plan review decisions.

**Instructor:** Doug Thornburg, ICC Staff

MONDAY 2/12/18

### **AM IBC Commercial Roofing**

**Session 826**

Knowing how to deliver great customer service in the code enforcement setting is one of the keys to building a relationship with a community. The session explores the fundamentals of communicating with residents, builders and internal customers, whether face to face or over the telephone. How you say something is usually more important than what you say.

### **PM IBC Tenant Improvement Aspects of Assembly, Business & Mercantile Occupancies**

This seminar identifies IBC provisions applicable to the design and construction of tenant space improvements. Discussions address the three most common types of uses: business, mercantile and assembly. It emphasizes options available in the code for gaining compliance. Topics include occupancy separations and fire areas, type of construction features, fire-resistance-rated construction, interior finish materials, fire protection features, means of egress components and design.

**Instructor:** Steve Thomas, Colorado Code Consulting

TUESDAY 2/13/18

### **Firestopping - Plan Review and Inspection**

**Session 822**

Firestopping has become a hot topic because of the new Firestop Inspector requirements in the 2012/2015 IBC. This seminar is designed for plans examiners, fire and building inspectors, contractors, architects and engineers. We will review the requirements of Sections 714 and 715 of the IBC for joint systems, perimeter containment, through and membrane-penetrations, and discuss the new ASTM firestop inspection standards. Participants also receive an overview of the residential requirements of fireblocking. This seminar will also provide code compliant solutions along with helpful hints for plans examiners and inspectors.

**Instructor:** Brice Miller, Fire Containment training Services, LLC

TUESDAY 2/13/18

### **2015 IBC Performing Non-Structural Plan Reviews**

**Session 827**

Participants will be better able to understand and apply the requirements of the 2015 International Building Code (IBC®) regarding the knowledge of performing a nonstructural plan review. When you complete this seminar, you will be able to determine whether a given set of building plans complies with the outlined requirements of the 2015 IBC.

**Instructor:** John Gibson, ICC Staff

## WEDNESDAY 2/14/18

**2015 IBC Inspection of Fire-Resistance-Rated Walls, Floors, Ceilings and Roofs** **Session 823**  
This seminar deals with the application of IBC Chapter 7 related to the construction and protection of rated walls and horizontal assemblies. Topics include: Identifying the five types of walls and their differences; understanding the differences between floor, floor/ceiling and roof/ceiling assemblies; protection requirements for penetrations, joint systems, duct and air transfer openings, and door and window openings. Additional discussion will look at test standards used to evaluate the assembly, protection systems and how those protections are limited or compromised if not installed as tested.

**Instructor:** Roger Axel, ICC Instructor

## WEDNESDAY 2/14/18

**2018 IBC Significant Changes** **Session 828**  
This seminar will identify important changes in the IBC from 2015 to 2018 edition. Participants will be presented with those changes that will most impact their use of the code when they adopt the 2018 IBC.

**Instructor:** Doug Thornburg, ICC Staff

## THURSDAY 2/15/18

**IBC Building Areas, Fire Areas & Mixed Occupancies** **Session 824**  
Comprehensive discussion of the major compartmentalization concepts of the IBC, focusing on those requirements that deal with building size, sprinkler options and mixed-use buildings. Fire-resistance-rated construction is also addressed. This seminar will include topics on allowable areas, area increases, unlimited area buildings, fire area concept and construction, incidental/accessory use areas and separated/non-separated uses.

**Instructor:** Steve Thomas, Colorado Code Consulting

## THURSDAY 2/15/18

**AM** **2015 IBC Accessible Means of Egress** **Session 829**  
This seminar explores the detailed provisions related to accessible means of egress systems as required by Section 1007. Defined as a continuous and unobstructed path of egress travel from any accessible point in a building or facility to a public way, one or more accessible means of egress must also comply with the applicable provisions of the MN Accessibility Code and ICC A117.1.

**PM** **2015 IBC Assembly Means of Egress**  
Focusing on Section 1028 of the 2015 IBC, this seminar identifies those provisions specific to assembly buildings and assembly spaces. The hazards associated with large numbers of occupants in concentrated areas are specifically addressed through the special requirements of Section 1028. This seminar also includes a discussion of ICC 300, *Standard for Bleachers, Folding and Telescoping Seating, and Grandstands*.

**Instructor:** Roger Axel, ICC Instructor

## FRIDAY 2/16/18

**IBC Multi-Family Construction** **Session 825**  
This seminar presents an overview of the requirements for multi-family dwellings in the IBC. Type V-A construction may be the most difficult type of construction by which to build a structure. 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.

**Instructor:** Steve Thomas, Colorado Code Consulting

## BUILDING (SPECIAL TOPICS)

### MONDAY 2/12/18

**All Things Wood – How Wood Construction Complies with the Building Codes** **Session 831**  
This seminar will provide an overview of both current and new wood products and techniques. It will discuss how they may be applied to your future building designs and how they are being used in projects across the nation today to comply with the IBC and the IRC. The presentation will also include the most current information on the code development efforts associated with tall mass timber buildings in the United States.  
**Instructor:** Jim Smith, American Wood Council

### TUESDAY 2/13/18

**AM 2015 IBC Special Use & Occupancy** **Session 832**  
This seminar provides an overview of the 2015 IBC Chapter 4 provisions and the application of the code requirements for various uses and occupancies that are addressed in that chapter including: requirements for buildings and conditions that apply to one or more occupancy groups, such as high-rise buildings, underground buildings and atriums; specific areas and operations, including hazardous materials, application of flammable finishes, drying rooms, organic coatings, combustible storage and hydrogen cutoff rooms; special use areas, such as covered mall buildings, motor-vehicle-related occupancies, special amusement buildings and aircraft-related occupancies; special facilities within other occupancies, such as stages and platforms, motion picture projection rooms and storm shelters; and unique considerations for Groups H, I and R, as well as ambulatory care facilities and live/work units. This seminar will use drawings and examples to illustrate complex design and inspection topics.

**PM 2015 IBC Mixed Occupancies**  
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. Specific topics include: occupancy classification, mixed occupancy conditions, accessory occupancies, non-separated occupancies, separated occupancies, and multi-story conditions.  
**Instructor:** Jay Woodward, ICC Staff

### THURSDAY 2/15/18

**AM A Code Officials Guide to UL** **Session 834**  
This seminar provides an overview of UL Certification programs and services, and demonstrates how code officials can use UL certifications and services to help them with their plan review and inspections. This seminar also includes hands-on examples of using UL resources and information to resolve fire code enforcement situations.

**PM Fire Performance of Lightweight Engineered Lumber**  
This seminar provides a detailed look at the results of a research investigation UL conducted for the Dept. of Homeland Security on the fire performance of lightweight lumber construction. The research provides back-to-back comparisons of the performance of legacy construction using dimensional lumber versus modern construction using engineered structural elements.  
**Instructor:** Rich Walke, Underwriters Laboratories, Inc.



**THURSDAY 2/15/18**

**2015 IBC Care Facilities Provisions**

**Session 836**

This seminar will address provisions in the 2015 IBC and referenced standards relating to the design and construction of care facilities, such as medical care, custodial care, ambulatory care and day care facilities. This seminar will focus on the specific decision making needed to apply the provisions appropriately by highlighting the differences between the various types of care activities. This seminar will include a discussion on how the length of stay, number of care recipients, degree of care and capability 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.

**Instructor:** Jay Woodward, ICC Staff

**FRIDAY 2/16/18**

**2015 IBC Assembly Spaces**

**Session 835**

This seminar will address the 2015 IBC requirements applicable to design and construction of assembly spaces. It will address the differences between the various Group A occupancies and how assembly uses may also fit within the business or educational occupancy classifications. This seminar will cover the unique aspects of the code related to assembly uses including the stage and platform requirements of Section 410, the ICC 300 *Standard for Bleachers, Folding and Telescopic Seating, and Grandstands*, the special egress provisions of Section 1028, along with the special amusement building and motion picture projection room requirements from Chapter 4. IFC provisions related to places of assembly such as requirements for a fire watch, limitations on open flames, combustibles and finishes will also be addressed

**Instructor:** Jay Woodward, ICC Staff

**FRIDAY 2/16/18**

**Building Department Disaster Preparedness**

**Session 837**

This seminar is a short “nuts & bolts” effort to help building departments better prepare for natural disaster emergencies and to react more effectively if one occurs in their municipality. In emergencies, such as floods, tornadoes, wildfires or massive soil erosion, it is important that the building department respond immediately, knowledgeably, and effectively for the community. Sound decisions must be made quickly to expedite the inspection and reconstruction process. This seminar provides the guidance to expedite those decisions using the MN Building Official Disaster Preparedness Manual.

**Instructor:** Roger Axel, AMBO

*Attendees will receive a copy of the MN Disaster Preparedness Manual.*

2018 Region III	Monday February 12, 2018	Tuesday February 13, 2018
Code Enforcement/ Permit Technicians Track 1	Situational Awareness Zoning - "The Perfect Storm" Session 801	Self-Leadership in Enforcement Courtroom Testimony Session 802
Code Enforcement/ Permit Technicians Track 2	Fundamentals of the I-Codes for Permit Technicians Session 806	
Building (Residential)	2018 IRC Significant Changes Session 811	2015 IRC Plan Review Session 812
Building (Commercial) Track 1	2015 IBC Fire & Life Safety Principles Session 821	Firestop Plan Review & Inspections Session 822
Building (Commercial) Track 2	IBC Roofing* Tenant Improvement Aspects of A, B & M Occupancies* Session 826	2015 IBC Non-Structural Plan Review Session 827
Building (Special Topics) Track 1	All Things Wood - How Wood Construction Complies with the Building Codes Session 831	2015 IBC Special Use & Occupancy* 2015 IBC Mixed Occupancies Session 832
Building (Special Topics) Track 2		
Building/Fire (Special Topics)	2015 IFC Performing Commercial Fire Inspections Session 841	2018 IFC Significant Changes Session 842
Plumbing/Mechanical Track 1	Duct Construction Standard & Installation of Fire/Smoke Dampers Session 851	2015 MN Plumbing Code Essentials Session 852
Plumbing/Mechanical Track 2		Testing, Balancing & Commissioning HVAC Systems Session 856
Special Events	AMBO Board Meeting 6:00 PM (Oakview Dining Room)	Evening Dinner Outing 6:00 PM (Meet in Lobby)

<p><b>Wednesday February 14, 2018</b></p>	<p><b>Thursday February 15, 2018</b></p>	<p><b>Friday February 16, 2018</b></p>
<p>Verbal Judo Vacancy, Blight &amp; Local Governments <b>Session 803</b></p>	<p>Signage &amp; Right-Of-Way Encroachments Creating Great Code Enforcement Officers <b>Session 804</b></p>	<p>Customer Service Principles for Officers &amp; Inspectors Back to Basics Code Enforcement Strategic Planning <b>Session 805</b></p>
<p>Interpersonal Communications <b>Session 807</b></p>		<p>Games People Play - Code Enforcement and Game Theory <b>Session 808</b></p>
<p>2015 IRC Inspections <b>Session 813</b></p>	<p>2015 IRC Townhouse Fire &amp; Life Safety Principles <b>Session 814</b></p>	
<p>2015 IBC Inspection or Fire-Resistive- Rated Walls, Floors, Ceilings &amp; Roofs <b>Session 823</b></p>	<p>Building Areas, Fire Areas &amp; Mixed Occupancies <b>Session 824</b></p>	<p>IBC Multi-Family Construction <b>Session 825</b></p>
<p>2018 IBC Significant Changes <b>Session 828</b></p>	<p>2015 IBC Accessible Means of Egress 2015 IBC Assembly Means of Egress <b>Session 829</b></p>	
<p></p>	<p>Code Officials Guide to UL Fire Performance of Lightweight Engineered Lumber <b>Session 834</b></p>	<p>2015 IBC Assembly Spaces <b>Session 835</b></p>
<p></p>	<p>2015 IBC Care Facilities Provisions <b>Session 836</b></p>	<p>Building Department Disaster Preparedness <b>Session 837</b></p>
<p>2012 IBC &amp; IFC, 2013 NFPA 72 Overview of Fire Alarm Provisions <b>Session 843</b></p>	<p>Fire Sprinkler Systems: How They Work, What is Critical for Installation <b>Session 844</b></p>	<p>2015 IFC &amp; IBC Fire Protection Systems <b>Session 845</b></p>
<p>2015 MN Plumbing Code DWV Provisions <b>Session 853</b></p>	<p>2015 MN Backflow Prevention Overview 2015 MN Traps &amp; Interceptors <b>Session 854</b></p>	<p>2015 MN Plumbing Inspections <b>Session 855</b></p>
<p>2018 IMC Design, Installation &amp; Inspection Principles <b>Session 857</b></p>	<p>2018 IFGC Design, Installation &amp; Inspection Principles <b>Session 857</b></p>	<p>Smoke and Fire Protection with Mechanical and Plumbing Inspections <b>Session 859</b></p>
<p><b>MN DLI Certification &amp; Licensing Exams 12:30 PM</b> <b>Trade Show - Concourses</b> <b>Region III Board &amp; Membership Meeting</b> <b>(Oakview Dining Room)</b></p>		<p><b>ICC Certification Exams</b></p>

## **FIRE/BUILDING (SPECIAL TOPICS)**

### **MONDAY 2/12/18**

#### **2015 Performing Commercial Fire Inspections**

**Session 841**

This seminar presents the process of conducting commercial fire inspections, following the provisions and requirements of the 2015 IFC. Specifically, this 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.

**Instructor:** Terrell Stripling, ICC Staff

### **TUESDAY 2/13/18**

#### **2018 IFC Significant Changes**

**Session 842**

This seminar will identify important changes in the IFC from the 2015 to the 2018 edition. Participants will be presented with those changes that will most impact their use of the code when they adopt the 2018 IFC.

**Instructor:** Terrell Stripling, ICC Staff

### **WEDNESDAY 2/14/18**

#### **2012 IBC & IFC, 2013 NFPA 72 Overview of Fire Alarm Provisions**

**Session 843**

This seminar provides an overview of the latest safety provisions related to fire alarm, detection, signaling and emergency communication demands. The building and fire code requirements based on occupancy classification for automatic and manual systems and other scoping provisions related to fire alarms will be presented. This will be followed by coverage of NFPA 72 installation, performance, inspection, testing, and maintenance of fire alarm systems and fire systems components. This will include the identification of alarm testing, maintenance of fire alarm systems and identification of fire alarm elements on building plans.

**Instructor:** Terrell Stripling, ICC Staff

### **THURSDAY 2/15/18**

#### **Fire Sprinkler Systems: How They Work, What is Critical for Installation**

**Session 844**

This seminar provides the code official with an understanding of the basic fire sprinkler system requirements, common installation practices, and frequently seen errors. It also provides an understanding of the requirements that are critical for proper sprinkler system operation. Attendees are encouraged to bring a copy of the 2010 edition of NFPA 13. This is a basic fire sprinkler class and intended for code officials who are new to fire inspections or who work with sprinklers on a casual basis.

**Instructors:** Jon Nisja & Rich Pehrson, MN State Fire Marshal Division Staff

### **FRIDAY 2/16/18**

#### **2015 IBC & IFC Fire Protection Systems**

**Session 845**

This seminar is designed to guide participants through the 2015 IFC requirements related to fire protection systems (Chapter 9). These requirements include suppression systems, standpipe systems, automatic fire alarm systems, automatic detection systems and additional fire protection assemblies.

**Instructor:** Terrell Stripling, ICC Staff

**MONDAY 2/12/18**

**Duct Construction Standard and Installation of Fire/Smoke Dampers** **Session 851**  
This seminar will address the key aspects of the SMACNA Duct Construction Standard, along with duct leakage testing in commercial buildings and installation of fire, smoke and radiation dampers. The intended audience is mechanical and building inspectors; however, this class is also appropriate for plan reviewers, designers, engineers, contractors and others involved with the design, installation and operation of heating, ventilation, and air-conditioning systems.  
**Instructor:** Eli Howard, SMACNA Staff

**TUESDAY 2/13/18**

**Testing, Balancing and Commissioning HVAC Systems** **Session 856**  
This seminar will cover the process of testing, adjusting and balancing HVAC systems to comply with the code and industry-accepted practices, along with other NFPA and fire/life safety considerations. In addition, this seminar will provide an overview on the energy code provisions with respect to the commissioning process and will include what commissioning tasks are required, what systems are required to be commissioned, and who is qualified to perform the commissioning. This seminar is intended for plan reviewers, designers, engineers, contractors and others involved with the installation of heating, ventilation, and air-conditioning systems.  
**Instructors:** Matt Josephson, Karges-Falconbridge, Inc. & John Hamilton, Testing Adjusting and Balancing Bureau

**TUESDAY 2/13/18**

**2015 MN Plumbing Code Essentials** **Session 852**  
This seminar is an excellent opportunity to get-up-to-speed on what you need to know to effectively use the new MN Plumbing Code (2012 UPC). By providing a fundamental understanding of the code, this seminar offers attendees an opportunity to learn the basics of the 2012 MN UPC by showing how the code is organized, discussing the key concepts, and identifying important provisions in each chapter.  
**Instructor:** Dan Rademacher, IAPMO Staff

**WEDNESDAY 2/14/18**

**2015 MN Plumbing Code DWV Provisions** **Session 853**  
A plumbing system relies on the interconnected drain, waste, and vent systems (DWV) in order to operate efficiently and safely. This seminar provides a detailed review and discussion of the DWV requirements in the 2015 MN Plumbing Code. The provisions in the code that govern the proper installation and design of DWV systems will be discussed, and attendees will see in-depth demonstrations on how to properly size DWV systems with several opportunities to practice.  
**Instructor:** Dan Rademacher, IAPMO Staff

**WEDNESDAY 2/14/18**

**2018 IMC Design, Installation & Inspection Principles** **Session 857**  
This seminar highlights key provisions of the 2018 IMC and provides practice in applying key requirements. This seminar reinforces learning by supplying immediate feedback or clarification. It walks attendees through the content outline of the code book, and describes key sections.  
**Instructor:** Sam Dardano, ICC Staff

## THURSDAY 2/15/18

AM

### **Backflow Prevention Overview**

**Session 854**

Plumbing codes are designed with the deliberate intent to protect the health and safety of those who will utilize and consume potable water. Perhaps the best and most widely accepted way of protecting that water supply from contamination is backflow prevention. This seminar will provide a basic overview of backflow prevention practices and devices and the code provisions that govern their use. Attendees will gain a greater understanding and appreciation of backflow prevention techniques and devices as well as a better understanding of how and where they are to be used, installed, and maintained.

PM

### **2015 MN Traps & Interceptors**

The role of the plumbing system is not just to transport water and waste. It is to do so as responsibly, efficiently, and as discreetly as possible. This seminar discusses the role, importance, and requirements for traps and their related components in an effort to maintain a sanitary and pleasant indoor environment. Also discussed will be the various types of interceptors, how they work, and how and where they are to be installed so that potentially problematic waste products that end up in the drainage system can be separated and removed.

**Instructor:** Dan Rademacher, IAPMO Staff

## THURSDAY 2/15/18

### **2018 IFGC Design, Installation & Inspection Principles**

**Session 858**

This seminar provides a basis for the correct use of the code in the design, plan review, inspection, and analysis of projects. It will provide a clear understanding and correct use of the requirements identified by basic code provisions, tables and topics. Allows code users to apply the code in clear-cut situations and helps to build their understanding of the intent of the code when asked to make code compliance decisions. Attendees will be better able to discuss critical concepts of the 2018 IFGC.

**Instructor:** Sam Dardano, ICC Staff

## FRIDAY 2/16/18

### **2015 MN Plumbing Inspections**

**Session 855**

This seminar is a “how-to” discussion of inspections for commercial and residential buildings. Attendees will learn the fundamental steps and processes in performing these types of inspections while also learning numerous tips and techniques to help inspections be more thorough and accurate. Attendees are also advised of potential pitfalls they may encounter in the field so they can be avoided. For inspectors, this seminar offers a rewarding learning experience that will assist in the proper administration of the code. For contractors and engineers, this seminar offers a great opportunity to learn what to expect when working with the code.

**Instructor:** Dan Rademacher, IAPMO Staff

## FRIDAY 2/16/18

### **Smoke and Fire Protection with Mechanical and Plumbing Inspections**

**Session 859**

This seminar is an encore performance of the Fall 2017 MN DLI CCLD series and will cover smoke and fire-rated construction and wall types, along with penetration protection and opening protection. Also included is an overview of radiation dampers, smoke dampers, fire dampers, and combination fire/smoke dampers. The afternoon session will review the mechanical inspections pertaining to HVAC economizers and requirements from the energy, mechanical and fuel gas codes, along with basic commercial plumbing inspections from the ground work up.

**Instructor:** Greg Metz, Chris Meier & Brad Jensen, MN DLI Construction Codes and Licensing Division



**ATTENTION  
ICC CHAPTER PRESIDENTS!**

Take advantage of a free day of attendance at the Institute.

Contact Roger Axel, AMBO Executive Officer, for details  
[raxel@ci.new-hope.mn.us](mailto:raxel@ci.new-hope.mn.us) | phone: 763-531-5122



# 2018 ICC Upper Great Plains Region III Educational Institute

## Key Information



### INSTITUTE HIGHLIGHTS

### FULL-WEEK PROGRAMS

Eighteen days of ICC seminars covering numerous specialty topics will be offered throughout the week. ICC will offer training on the 2018 IRC & IBC significant changes, plan review, fire-resistance-rated construction, mixed occupancies and special uses, as well as mechanical & fire inspections. ICC seminars will be led by returning veteran instructors, who are always well received. This includes **Doug Thornburg, John Gibson, Sandra Hyde, Roger Axel, Terrell Stripling, Jay Woodward and Sam Dardano.** **Steve Thomas**, Colorado Code Consulting, will also be returning to present five days of IBC specialty seminars. **Kelvin Beene & Marcus Kellum** will be returning to present five days of code enforcement and administration seminars.

### MONDAY

**AMBO Board Meeting**, 6:00 PM (Oakview Dining Room)

### TUESDAY

**Evening Dinner Outing**, 6:00 PM

### WEDNESDAY

**MN DLI CERTIFICATION EXAMS** available on site.

Separate registration through DLI required.

For details visit: [www.dli.mn.gov/cld/Official.asp](http://www.dli.mn.gov/cld/Official.asp)

**Trade Show:** Featuring the ICC **Bookstore** and numerous product vendors.

**Region III:** Chapter membership meeting with Chapter Recognition Awards.

### FRIDAY

**ICC CERTIFICATION EXAMS** available on site.

Separate registration through ICC required.

See pages 17 and 18 for details.

### REGISTRATION INFORMATION

\$155 per day

- Early Bird Discount: \$145 per day.
- Multiple Day Discount: \$145 per day when registration is for 4 or more days.

Early-bird Discount of \$145 per day applies to registrations received **on or before January 5, 2018.**

### REGISTER EARLY

The most popular sessions fill up quickly and close early!

**ICC Chapter Presidents:** Take advantage of a complimentary day of registration. See page 15 for details.

Registration includes instruction, handout materials, lunch and break refreshments.

**Walk-Ins** are accepted with limited availability.

### CANCELLATION POLICY

Written requests for refunds must be received by ICC on or before January 13, 2018. Written requests may be submitted by fax: 1-708-799-2651 or e-mail: [lchagolla@iccsafe.org](mailto:lchagolla@iccsafe.org).

### CONTINUING EDUCATION

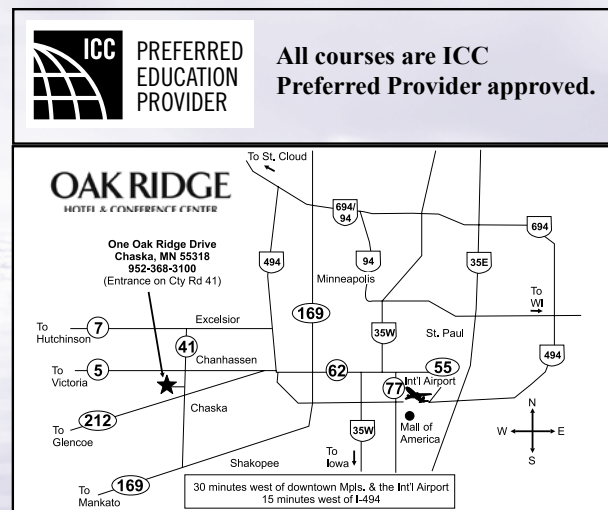
Qualifying continuing education will be issued for each day of attendance. Courses will be sent for continuing education recognition approval to the American Institute of Architects; the State of Wisconsin and the Minnesota Department of Labor & Industry Construction Codes and Licensing Division.

### LOCATION

#### **Oak Ridge Hotel & Conference Center**

One Oak Ridge Drive  
Chaska, MN 55318

- Free onsite parking
- Reservations: 877-874-6772
- Website: [www.oakridgeminneapolis.com](http://www.oakridgeminneapolis.com)
- Be sure to mention you will be attending the ICC Region III Educational Institute to receive the discounted institute rate of \$113, plus tax, per night.



### **Three Easy Ways to Register!**

Register Online: [www.iccsafe.org/RegionIII](http://www.iccsafe.org/RegionIII) | Register by Fax: 1-708-799-2651 | Register by Mail: ICC – Central Regional Office, 4051 Flossmoor Road, Country Club Hills, IL 60478

**Walk-in Registration Accepted – Limited Availability**





**Region III Educational Institute  
Paper & Pencil or PRONTO  
Special Examination Administration Application**

**Testing Address:**

Oak Ridge Hotel and Conference Center  
Room TBD  
One Oakridge Drive  
Chaska, MN 55318

**EXAM DATE**

February 16, 2018

**DEADLINE TO REGISTER**

January 19, 2018

**Exam Candidate Information—PRINT LEGIBLY**

ALL FIELDS BELOW REQUIRED EXCEPT AS NOTED.

Full Legal Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

(\_\_\_\_) \_\_\_\_\_ (\_\_\_\_) \_\_\_\_\_ (\_\_\_\_) \_\_\_\_\_  
Primary Telephone Number: \_\_\_\_\_ Home \_\_\_\_\_ Work    Secondary Number (optional)    Fax Number (optional)

**Exam Information & Administration Procedures**

- It is my responsibility to review exam-specific information through the exam catalog on the ICC website: [www.iccsafe.org/certification-exam-catalog](http://www.iccsafe.org/certification-exam-catalog).

**Important Notes**

- Applications may be submitted by U.S. mail, courier, or facsimile.
- Applications must be received by the deadline date.
- Examination fees are non-refundable. Exceptions are outlined in [www.iccsafe.org/icc-exam-administrative-rules-and-procedures](http://www.iccsafe.org/icc-exam-administrative-rules-and-procedures).
- A photo identification, such as a driver's license, will be required for admittance to the examination.
- References needed for taking the exams can be purchased from the Code Council by calling 1-800-786-4452 or at [shop.iccsafe.org](http://shop.iccsafe.org).
- If you have a physical disability that prohibits you from taking an examination under standard conditions, you may request special arrangements. Your letter of request must accompany this application, along with a completed special accommodations form. This form may be obtained by calling us at 1-888-422-7233. The request must be submitted and approved by the Code Council no later than **January 19, 2018**.
- **PRONTO Testing is limited to six (6) candidates per time slot.**

I hereby certify that I am the person indicated above, that all the information I have given herein is true and complete to the best of my knowledge, and that any false statement will be cause for voiding this application and/or subsequent certification.

I acknowledge receipt of the Code Council Certification Code of Ethics (located in the Information Bulletin) and agree to comply with these professional standards for the term of my active certification. I agree that failure to comply with these standards may be cause for suspension or revocation of my certification.

I further certify that I understand the secure and confidential nature of the examination, and will not reveal the contents of the examination to anyone. I hereby affirm that I will abide by the rules of the examination that are found in the Code Council National Examination Information Bulletin.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

————— **Both pages of this application must be completed to process.** —————

Please see [www.iccsafe.org/region-iii-exam-information/](http://www.iccsafe.org/region-iii-exam-information/) for more information regarding exam availability.

B1 Residential Building Inspector	FK Pre-engineered Kitchen Fire Extinguishing System Tech	66 Fire Inspector I
B2 Commercial Building Inspector	FN Pre-engineered Industrial Fire Extinguishing System Tech	67 Fire Inspector II
B3 Building Plans Examiner	FE Cert Portable fire Extinguisher Technician	F3 Fire Plans Examiner
R3 Residential Plans Examiner	RF Residential Fire Sprinkler Inspector	MM Management Module
E1 Residential Electrical Inspector	79 Residential Energy Inspector/Plans Examiner	MG Legal Module
E2 Commercial Electrical Inspector	C1 Coastal and Floodplain Construction Inspector	FC Fire Codes and Standards
E3 Electrical Plans Examiner	GC IgCC Inspector/Plans Examiner w/ASHRAE 189	BC Building Codes and Standards
M1 Residential Mechanical Inspector	CA Commercial Fire Alarm Inspector	CS Code Specialist
M2 Commercial Mechanical Inspector	CN Commercial Fire Alarm Plans Examiner I	75 Zoning Inspector
M3 Mechanical Plans Examiner	CR Commercial Fire Alarm Plans Examiner II	14 Permit Technician
P1 Residential Plumbing Inspector	CF Commercial Fire Sprinkler Inspector	77 Commercial Energy Inspector
P2 Commercial Plumbing Inspector	CP Commercial Fire Sprinkler Plans Examiner	78 Commercial Energy Plans Examiner
P3 Plumbing Plans Examiner	64 Property Maintenance and Housing Inspector	G1 Green Building—Residential Examiner
21 Accessibility Inspector/Plans Examiner	CE Commercial Energy Inspector/Plans Examiner w/ASHRAE 90.1	

<b>Please provide your examination selections below.</b>		<b>Exam Fee: \$199</b>
<b>8:00 a.m.</b> Exam ID: _____ Code Year: <input type="checkbox"/> 2012 <input type="checkbox"/> 2015 Exam Method*: <input type="checkbox"/> P&P <input type="checkbox"/> PRONTO	<b>1:00 p.m.</b> Exam ID: _____ Code Year: <input type="checkbox"/> 2012 <input type="checkbox"/> 2015 Exam Method*: <input type="checkbox"/> P&P <input type="checkbox"/> PRONTO	
*For PRONTO availability, please visit our website at: <a href="http://www.iccsafe.org/region-iii-exam-information/">www.iccsafe.org/region-iii-exam-information/</a>		

**Billing Information**

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

(\_\_\_\_) \_\_\_\_\_ (\_\_\_\_) \_\_\_\_\_  
 Business Telephone Number Fax Number

**Full payment must be submitted with all applications.**

Total Amount: \$ \_\_\_\_\_

Method of payment provided:  Check/Money Order  Visa  MasterCard  American Express  Discover  
 (Payable to ICC)

Name as it appears on credit card: \_\_\_\_\_

Signature: \_\_\_\_\_

Credit Card Number Expiration Date

Month	Year

CVV\* Month Year

Month	Year

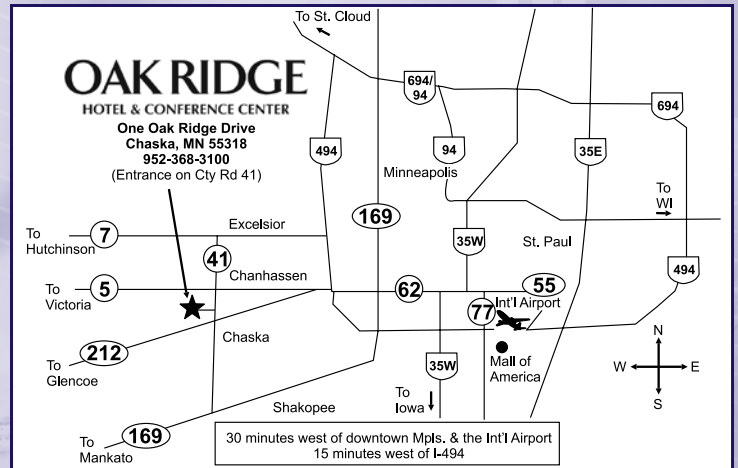
\*Visit <https://www.cvvnumber.com/cvv.html> for information regarding the CVV code.

**Return this completed application in its entirety along with the appropriate fees to:**  
**International Code Council**  
**Assessment Center**  
**900 Montclair Road**  
**Birmingham, Alabama 35213-1206**  
**Fax: 205-599-9884**

<b>OFFICE USE ONLY</b>	Candidate ID: _____ Requirements met: _____ Date processed: _____ Initials: _____
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**AMBO**  
**C/O Jon Sutherland**  
**712 Northwood Drive**  
**Delano, MN 55328**



**Don't delay. The most popular sessions fill up quickly and close early! For the most up-to-date information, go to [www.iccsafe.org/RegionIII](http://www.iccsafe.org/RegionIII).**