



BONNEVILLE

CHAPTER

Utah Cultural
Celebration Center
1355 West 3100 South
West Valley City, Utah

Nov. 28, 29, 30 2023

30th
Annual Fall
Educational Institute

Up to 8 C. E. U.
Credit Hours
awarded per day for:
Architects,
Engineers,
Fire and Building
Departments

Courses Provided by:



PREFERRED
EDUCATION
PROVIDER

*New Approved AIA
Courses, earn AIA CEUs*



AIA
Utah

Partial Funding by:



DEPARTMENT OF COMMERCE
Division of Occupational and
Professional Licensing

COURSE DESCRIPTIONS

2021 IBC Alternate Means & Methods

This class reviews the use of the alternate materials and methods requirements of the codes. The class will review the use of ICC evaluation reports when using the International Building Code. Different types of materials and methods will be discussed. Examples of how those materials and methods should be evaluated will be provided to attendees will have a better understanding of how to review or submit alternates.

2021 IBC Types of Construction & Special Building Types, Features, & Hazards

Based on selected provisions in IBC Chapter 4, this seminar focuses on selected special building types, features and hazards. High-rise buildings, underground buildings, parking garages are specialized buildings that have their own unique considerations. Atriums, stages and platforms are building features that are evaluated in a special manner due to the hazards involved. Combustible storage, use and storage of hazardous materials, spray application of flammable finishes, medical gas storage rooms, control areas and laboratory suites are also addressed.

This seminar will also look at the provisions of IBC Chapter 6 and will address the identification of the construction materials and fire-resistance-rated features associated with the 12 individual construction types. The permissible use of combustible materials in Type I and II noncombustible buildings will also be addressed.

2021 IBC Accessibility (2017 ICC A117.1 Update)

This seminar will discuss the changes to Chapter 11 of the 2021 IBC and the 2017 ICC A117.1 Accessibility Standard. The discussion will include the application of the code and standard to new and existing buildings. It will also discuss the new dimensions required for accessibility. The reasons and intent of the changes will be discussed.

COURSE DESCRIPTIONS - CONTINUED

2021 IRC Plan Review & Inspections

This seminar will discuss how to perform a residential plan review and inspections ensuring compliance with the IRC. Topics that will be discussed include administration, design criteria, site considerations, foundations, floor construction, roof construction, wall construction, braced wall provisions, wall coverings, roofing, chimneys, mechanical, plumbing, electrical, and energy. The seminar does not teach how to design a single-family residence, but rather explains how to verify the project's design assumptions and overall compliance with the IRC.

2021 IRC Chapter 3 Overview

Explores the major provisions of Chapter 3, Building Planning of the 2021 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 class is designed to introduce the provision of the code to the user.

2021 IMC & IFGC Overview

A review of the International Mechanical Code and the International Fuel Gas Code will be provided, along with the basic provisions for appliance installation, combustion air, venting, fuel gas piping, ducting, ventilation and exhaust. And will address the significant changes to both codes.

Solar PV & Energy Storage Systems Inspections

The first half of this full-day course focuses on inspections for solar PV systems, including residential and commercial systems. The course will explain key concepts of what to look for during inspections (or if you're going to have an inspection on your install). Topics covered include roof-mounted systems, ground-mounted systems, typical PV racking systems, ballasted racking systems,

COURSE DESCRIPTIONS - CONTINUED

overcurrent protection, disconnects, point of interconnection, wire management, and signage. The second half of this class is designed to help students understand how battery systems are to be properly installed and will focus on the various 2020 NEC and 2021 IRC code requirements that govern battery-backup solar PV systems. The focus of this portion of the class will be on how inspections are to be performed for ESS. Topics covered include battery locations, battery enclosures, battery system size, working space, disconnects, overcurrent protection, wiring methods, utility grid-isolation, and signage.

Energy Storage Systems, Electric Vehicle Charging, & Arc Fault

This course will address the requirements in the 2020 NEC related to electric vehicle power transfer equipment found in Article 625. Additionally, this course will cover the requirements for the installation of energy storage systems in the IRC, IFC and NEC. Electrical vehicles and energy storage systems are becoming more prevalent.

2021 IBC Update

This seminar reviews and analyzes selected significant nonstructural changes from the 2018 to the 2021 edition of the *International Building Code* (IBC). Although the focus of the presentation is on revisions to the IBC fire- and life-safety provisions, additional areas of discussion include accessibility, construction materials and building services. The seminar assists building officials, fire officials, plans examiners, inspectors and design professionals in identifying the specific code changes that have occurred and understanding the reasoning behind the changes. The program is based on the ICC publication *Significant Changes to the International Building Code, 2021 Edition*.

2021 IFC Update

This class will provide a brief synopsis of some of the key changes that have occurred in the 2021 IFC in relation to the 2018 version.

COURSE DESCRIPTIONS - CONTINUED

The course will outline each change, discuss what prompted the changes, and how the changes will impact plan review, installation and inspection of fire related systems in buildings. Several of the Utah-specific amendments will also be discussed.

Fire Sprinkler Plan Review – The Basics

This course will walk the attendee through the basic steps required to perform a thorough plan review of a fire sprinkler submittal. This includes the review of the fire sprinkler shop drawings, hydraulic calculations, sway bracing calculations, and material cut sheets. The specific requirements of NFPA 13 (2019 version as referenced in 2021 IFC) will be addressed, and common design issues will be highlighted. Acceptance testing and as-built requirements will also be clearly noted.

Fire Alarm Plan Review – The Basics

This course will walk the attendee through the basic steps required to perform a thorough plan review of a fire alarm submittal. This includes the review of the fire alarm shop drawings, voltage drop and battery calculations, and equipment data sheets. The specific requirements of NFPA 72 (2019 version as referenced in 2021 IFC) will be addressed, and common design issues will be highlighted. Acceptance testing and completion documentation will also be clearly noted.

COURSE INSTRUCTORS

Stephen L. Thomas, CBO

Colorado Regional Manager and Education Director for Shums Coda Associates.

Mr. Thomas has over forty years' experience in working with building codes including plan reviews, inspections and administration. His firm provides building code consulting services for governmental agencies and architectural firms, as well as educational seminars on building codes across the country. Working for a building code-consulting firm since 1999, he has served as the contract Building Official for different local jurisdictions in Colorado. Mr. Thomas has served on several ICBO and ICC committees including serving as a member and then Chairman of the ICC Means of Egress Code Development Committee. He was named an honorary member of ICC in 2021. He is also the author of the book, *Building Code Basics*, based on the 2009 & 2012 IBC and *Building Code Essentials* based on the 2015 & 2018 IBC, both available from ICC. He and his previous firm, Colorado Code Consulting were awarded the Educator of the Year Award by the ICC in 2018. He has presented building code classes for the last 35 years and provides an interesting and engaging look at building codes.

Douglas W. Thornburg, AIA, CBO

Mr. Thornburg, AIA, CBO is currently Vice-President and Technical Director of Products and Services for the International Code Council (ICC) where he provides administrative and technical leadership for the ICC product development activities. Prior to employment with ICC in 2004, he was in private practice as a code consultant and educator on building codes for nine years. Doug also spent ten years with the International Conference of Building Officials (ICBO) where he served as Vice-President/Education. He began his career with the City of Wichita, Kansas as a building inspector, followed by that as a plans reviewer and then building codes administrator. In his current role, Doug continues to create and present building code seminars nationally and has developed numerous educational texts and resource materials. He was presented with ICC's inaugural Educator of the Year Award in 2008, recognizing his outstanding contributions in education and training.

COURSE INSTRUCTORS - CONTINUED

A graduate of Kansas State University and a registered architect, Doug has over 42 years of experience in building code training and administration. He has authored a variety of code-related support publications, including the *IBC Illustrated Handbook* and the *Significant Changes to the International Building Code*.

Jason Van Ausdal

Jason Van Ausdal has been in the building code trades as a combination inspector for over 25 years. 22 years of that as a Building official for various communities. After retiring from City Government, He works as a consultant, plans examiner, inspector, and educator for Shums Coda Associates in Utah. He has been teaching plumbing, mechanical and building codes for over 17 years for inspectors and contractors for various organizations and has taught in several States throughout his career.

Chris Jensen

Chris Jensen has nearly 30 years' experience in the electrical industry as a master electrician, electrical inspector, plans examiner, Chief Building Official, electrical apprenticeship coordinator, electrical instructor and currently as a Regulatory Services Regional Manager for UL Solutions. Chris' career highlights include:

- Current Principal member of NEC Code Making Panel 5 representing UL for the 2023 NEC Cycle. Past member of NEC Code Making Panel 10 representing IAEI for the 2014 and 2017 NEC Cycle.
- Past Chairperson for the Uniform Building Codes Committee Electrical Advisory Committee for the State of Utah.
- Current member of the State of Washington 2020 Electrical Rules Technical Advisory Committee representing UL.
- Current education chairperson and board member for the Northwestern Section of the International Association of Electrical Inspectors (IAEI).
- Chris holds an active Combination Inspectors License in the State of Utah and has 15 ICC Certifications.
- Chris holds an active Master Electricians License in the State of Utah

**30th ANNUAL
FALL EDUCATIONAL INSTITUTE
BONNEVILLE CHAPTER – ICC
NOVEMBER 28, 29, & 30, 2023**

COURSE PATH	NOVEMBER 28, TUESDAY	NOVEMBER 29, WEDNESDAY	NOVEMBER 30, THURSDAY
IBC ADVANCED	2021 IBC Alternate Means & Methods AIA/ICC Preferred Provider Shums Coda, Steve Thomas	2021 IBC Types of Construction & Special Building Types, Features, & Hazards AIA/ICC Preferred Provider ICC, Doug Thornberg	2021 IBC Accessibility (2017 ICC A117.1 Update) AIA/ICC Preferred Provider Shums Coda, Steve Thomas
IRC & IBC Basics	2021 IRC Plan Review & Inspections AIA/ICC Preferred Provider WC3, George Williams	2021 IRC Chapter 3 Overview AIA/ICC Preferred Provider Shums Coda, Steve Thomas	2021 IMC & IFGC Overview AIA/ICC Preferred Provider Shums Coda, Jason Van Ausdal
MISCELLANEOUS	Solar PV & Energy Storage Systems Inspections AIA/ICC Preferred Provider WC3, Doug Smith	Energy Storage Systems, Electric Vehicle Charging, & Arc Fault AIA/ICC Preferred Provider UL, Chris Jensen	2021 IBC Update AIA/ICC Preferred Provider ICC, Doug Thornberg
FIRE SERVICE	2021 IFC Update AIA/ICC Preferred Provider WC3, Chris Kimball	Fire Sprinkler Plan Review – The Basics AIA/ICC Preferred Provider WC3, Craig Hanson	Fire Alarm Plan Review – The Basics AIA/ICC Preferred Provider WC3, Bob King

AIA C.E.U & ICC Preferred Provider C.E.U. CERTIFICATES AWARDED FOR MANY CLASSES Persons requiring assistance due to disabilities, please contact Craig Browne (801)388-6556 by November 18, 2023 so proper accommodations may be provided

Pre-Registration Required for all Courses by November 18, 2023.

* Please note: All classes start at 8:00am

COURSE INSTRUCTORS - CONTINUED

Doug Smith, MCP, CBO

Mr. Smith has been an inspector for over 18 years and has been in the construction industry for over 25 years. He began his career as a Building Inspector in 2005. During his career, he has obtained 19 ICC certifications, including Certified Building Official and Master Code Professional. As for his understanding of the building codes, you could say he is “well rounded,” but particularly he specializes in electrical code requirements and is especially knowledgeable on the topic of solar photovoltaics. Doug has taught many electrical and solar photovoltaic classes over the years for various organizations throughout the Western United States. With WC-3 he primarily performs electrical and solar PV plan reviews for many jurisdictional clients in Utah, Nevada, and California. The largest solar PV system plan review that he’s performed was a 240 mega-watt California Energy Solar PV project, which included over a million solar arrays.

Chris Kimball, PE, SE, MCP, CBO

Mr. Kimball is a licensed engineer and an ICC Master Code Professional. He is also certified by ICC as a building official, fire code official, combination plans examiner, combination building inspector, fire plans examiner/inspector, and accessibility plans examiner/inspector. He received his Master’s degree with an emphasis in structural engineering and currently serves as the Vice President of West Coast Code Consultants, Inc. He has performed plan reviews for thousands of projects throughout the Western United States and is an ICC-approved instructor. Mr. Kimball has provided code training classes to building officials, design professionals, and contractor organizations all over the United States and has written numerous code books on behalf of the ICC.

George Williams, MCP, CBO

Mr. Williams is an ICC-certified Master Code Professional and Certified Building Official and holds numerous additional certifications through the International Code. Over his nearly 20-year career, he has worked with multiple jurisdictions throughout California, Nevada, Washington, Utah, Wyoming, and North Dakota and was responsible for the start-up of two county building departments in parts of the country where no previous form of building or construction regulatory processes existed. This included the adoption of codes, implementation of permitting processes, and

COURSE INSTRUCTORS - CONTINUED

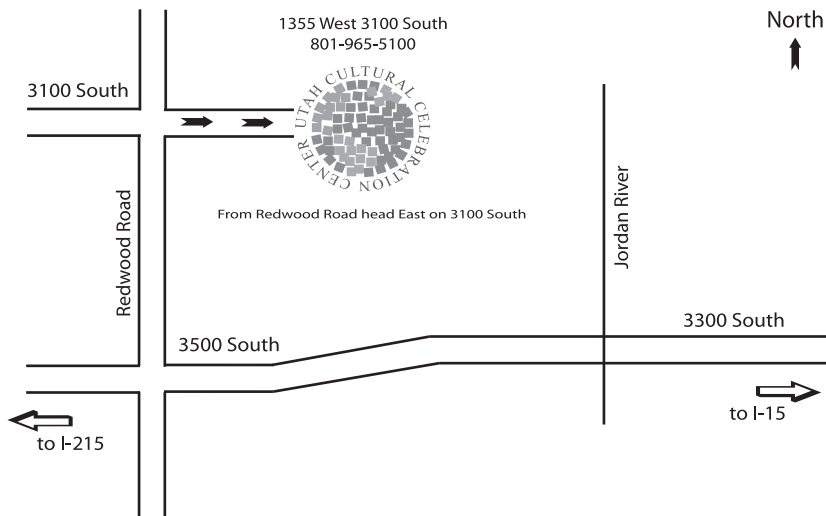
the development of various policies and procedures. In his role with WC-3, Mr. Williams serves as a lead inspector for a number of multi-million-dollar projects for Utah’s Division of Facilities and Construction Management (DFCM), performs complex commercial plan reviews for client jurisdictions, and oversees the development and direction of WC-3's online training program through the WC-3 Academy.

Craig Hanson, CFPS

Mr. Hanson is a Certified Fire Protection Specialist and Senior Fire Plans Examiner for West Coast Code Consultants, (WC-3). He has been in the industry for over 29 years and obtained a degree in Organizational Leadership. Craig holds certifications through ICC, NICET, the National Fire Academy, IFSAC, AFAA, DOD, and more. He is an approved fire and arson investigator, fire inspector, fire instructor, hazardous material safety officer, hazmat operations trainer, journeyman fire sprinkler fitter, and health and safety officer. Mr. Hanson has extensive real-life experience in relation to fire protection, building construction, and life safety. Past experience also includes instructing for the Washington State Fire Academy. Craig serves our firm as an integral member of the Fire Prevention team and is a valued instructor.

Bob King, EFO

Mr. King is a certified Executive Fire Officer and Senior Fire Plans Examiner for West Coast Code Consultants, (WC-3). He has been in the industry for over 40 years and obtained degrees in Fire Science, Fire Prevention Technology, and Executive Fire Officer Management. Bob holds certifications through the National Fire Academy and the International Code Council (ICC) and has extensive real-life experience in relation to fire protection, building construction, and life safety. Bob serves our firm as an integral member of the Fire Prevention team.



What you need to know about the Utah Cultural Celebration Center

culturalcelebrationcenter.org

Located at 1355 West 3100 South

Access from the corner of 3100 South & Redwood Road.
Drive as far east as you can on 3100 South.

The road ends at the *Utah Cultural Celebration Center*.

140 available *free* open parking spaces in dedicated parking
lot on site.

15 minute drive from Salt Lake City Airport.

Hotels within 5 minutes from conference site north and south of the Maverick Center.

Holiday Inn Express 866-925-1043
Baymont Hotel 866-767-0285
Sleep Inn 866-538-0270
Extended Stay America 866-925-7879
Crystal Inn 866-925-1480
Country inn & Suites 866-925-2907
Embassy Suites WVC 801-963-4760

Restaurants near conference site:

MAVERIK CENTER AREA

3100 South & Decker Lake Drive
5 minute drive from conference site

Costa Vida
Chili's
AppleBee's
IHOP

Cracker Barrel
Bout Time Pub & Grub

Greek Souvlaki (corner of Decker Lake & 3500 S)

VALLEY FAIR MALL AREA

3500 South Constitution Blvd. (2700 West)
10 minute drive from conference site

Olive Garden* (#1 in all USA Olive Gardens!)

TGI Fridays
Zupas
Wingers
Monster Sushi
In N Out Burger
Red Robin
Jimmy John's
Rumbi's
VF Mall Food Court
Pizza Rev
Cafe Rio
Smashburger

**ABOUT OUR FALL EDUCATIONAL INSTITUTE:
THE RIGHT TOPIC AT THE RIGHT TIME AT THE RIGHT PLACE!**

- Join us for our 30th annual conference. As always, we strive to maintain our tradition of excellent and relevant education at a reasonable cost.
- The conference will be held live and virtually-live with classes featuring a wide variety of topics.
- Learn from national and local experts including ICC seminars, a local engineering firm, and very well-known independent national instructors. All courses will provide ICC Preferred Provider Credit Hours. Please remember to bring your license numbers as we are required to report to DOPL.
- Partial funding of this training program has been provided by the Division of Occupational & Professional Licensing of the State of Utah from the 1% surcharge funds from all building permits.
- **CONTRACTORS NOTE: Once again our educational agenda provides timely classes specifically to help fulfill all your educational requirements for your license renewal. We cannot issue CEU's for license numbers ending in 5501 for general contractors.**

Registration Form

Name: _____
 Title: _____ Representing: _____
 Address: _____ City: _____ State: _____ Zip: _____
 E-mail: _____ Telephone: _____ Fax: _____
 Inspectors:
 DOPL # _____ ICC # _____
 Architects:
 DOPL # _____ AIA # _____
 Electricians:
 Journeyman's #: _____ Masters # _____

*Please see website for fillable PDF registration form

PLEASE CUT ALONG DOTTED LINE AND SEND THIS FORM FOR EACH PERSON ATTENDING INSTITUTE

SUPPLEMENTAL INSTRUCTIONS:

Each person registering must submit the attendees direct email address and telephone number. Each attendee must submit a DOPL, AIA, Journey electrical or Master electrical license number to complete the registration process. Please do not submit license numbers ending in 5501.

Fees: \$115 per Person per Day. **Contractors must add \$10.00 processing fee per license for the State contractor reporting. Late Registration after 11/18/2023 may not be accommodated.** We regret that we can no longer accept split or shared registrations. Everyone must submit a registration form with a check. No invoices please. Everyone must pay the minimum registration fee of \$115.00.

Make checks payable to:	Total Enclosed
BONNEVILLE CHAPTER ICC	
P.O. Box 672	
Farmington, Utah 84025	\$

Please check the boxes for the classes you will be attending.
 Pre-registration will insure you a workbook!!

*** Please note: All classes start at 8:00am**

30th Annual

Fall Educational Institute

Bonneville Chapter – ICC

November 28th, 29th, and 30th, 2023

All classes listed are full day classes

Path	November 28 th	November 29 th	November 30 th
IBC Advanced	<input type="checkbox"/> 2021 IBC AMMR	<input type="checkbox"/> 2021 IBC Types of Construction	<input type="checkbox"/> 2021 IBC Accessibility
IRC & IBC Basics	<input type="checkbox"/> 2021 IRC Plan Review & Inspections	<input type="checkbox"/> 2021 IRC Chapter 3 Overview	<input type="checkbox"/> 2021 IMC & IFGC Overview
Miscellaneous	<input type="checkbox"/> Solar PV & Energy Storage Systems Inspections	<input type="checkbox"/> Energy Storage Systems, Electric Vehicle Charging, & Arc Fault	<input type="checkbox"/> 2021 IBC Update
Fire Service	<input type="checkbox"/> 2021 IFC Update	<input type="checkbox"/> Fire Sprinkler Plan Review – The Basics	<input type="checkbox"/> Fire Alarm Plan Review – The Basics

Most classes are 8-hour sessions. Refund Policy: \$10.00 processing fee until November 25, 2023. Thereafter, maximum 80% for exceptional reasons. REQUESTS MUST BE IN WRITING.

Please note that all classes may be attended in person or virtually unless otherwise noted. Classes taught by Doug Thornberg will be live only.

*Please see website for fillable PDF registration form

PLEASE CUT ALONG DOTTED LINE AND SEND THIS FORM FOR EACH PERSON ATTENDING INSTITUTE

Bonneville Chapter ICC
c/o Mike Bosch, Treasurer
P. O. Box 672
Farmington, UT 84025-0672

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on the web!
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