

BONNEVILLE CHAPTER

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

Dec. 3, 4, 5 2024

31th
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*



Partial Funding by:



DEPARTMENT OF COMMERCE
Division of Occupational and
Professional Licensing

COURSE DESCRIPTIONS

2021 International Existing Building Code

In most jurisdictions we deal with existing buildings daily. This class will focus on what items we should be concerned about when an existing building is undergoing repair, alterations, additions, or a change in occupancy. The IEBC provides multiple paths for compliance and the benefits and drawbacks of these different options will be addressed. Most update triggers in the IEBC CEBC address structural, fire, means of egress, and accessibility requirements and each will be discussed in detail. Requirements for moved structures and historic buildings will also be addressed.

Legal Aspects & Building Code Administration

The first part of this course provides individuals with guidelines for administering the legal aspects of code enforcement, prosecution and maintenance. Topics will include historical results of ignoring regulations, interpretation and application of pertinent laws and theories of legal liability. The second part will discuss ethics, with a discussion of "real world" issues that affect the perception and performance of the code enforcement staff.

Designing to the IBC

This seminar discusses the best way to present a set of drawings to a building department. The more complete a set of drawings are, the quicker the plans can be reviewed and permit issued. The development of Code Analyses and Code plans will be reviewed. Subjects will also cover how to show fire-resistive rated construction, the means of egress and other code requirements on the plans. This class is designed for architects and designers, but may be helpful for plans examiners as well.

2021 IRC Townhomes, Duplexes & Accessory Dwelling Units

A look at the intricacies of constructing multi-family dwellings under the International Residential Code. The class will look at different issues surrounding the separation between units, the continuity and extension of the separation walls between dwelling units. Discussion will include

COURSE DESCRIPTIONS - CONTINUED

property line issues, projections, overhangs and other areas that create interpretation issues for these types of buildings.

2021 IRC Residential Electrical

This course will cover the essential electrical requirements for single family dwellings. Requirements that will be covered include: *NEC* definitions, general requirements, branch circuits, required outlets, GFCI and AFCI requirements, locations of devices and equipment, service requirements, grounding and bonding, and wiring methods. This course will not only be beneficial for existing inspectors, plan reviewers, or installers, but will also be helpful for individuals seeking to become certified as a residential electrical inspector.

2021 IRC Common Code Violations & 2021 IRC Energy Update

Morning Session: This course will highlight a variety of common code violations encountered in residential construction. Some will be issues that have persisted over the years, others will be misinterpretations of the code, or issues tied to recent changes in the IRC. The course will include a little bit of everything, including issues with plans and found in the field, and will be spread across building, mechanical, plumbing and electrical issues. This course will be helpful for inspectors to identify field issues they may have been unaware of and can help plans examiners identify issues that could be clarified on the plans, resulting in more code compliant field installations. An attempt to show photographs of common violations, in addition to code language, and calculations, if necessary, will be made. This will be a course you don't want to miss.

Afternoon Session: The 2024 Legislature addressed the residential energy code in the recent session, adopting the 2021 IECC and 2021 IRC with numerous amendments. The effective date of this adoption was July 1, 2024. Please join us for this class including discussion on:

- Residential energy code changes in the 2021 IECC/IRC, and many new amendments.
- How new amendments allow the continued use of the Utah 2012 REScheck.

COURSE DESCRIPTIONS - CONTINUED

- Duct pressure testing and blower door testing requirements and procedures.
- How many new amendments are similar to earlier amendments.
- Amendments deleting several lighting control requirements in the 2021 IECC/IRC.
- New *residential energy code guides*, replacing previous guides, with references identify the state amendments and the applicable code references.

IBC Means of Egress

This seminar addresses numerous provisions in Chapter 10 of the IBC pertaining to establishing a compliant means of egress system in buildings. The course is intended to assist designers, plan reviewers, inspectors and code officials in applying the concepts and applications of both the egress design provisions and the egress component requirements. General topics of discussion include the determination of occupant loads, exit access design, including egress distribution, common path of egress travel, corridors, egress illumination and exit signs, and exit components, such as interior exit stairways, exit passageways and horizontal exits.

2021 IBC Apartment Buildings

The design and construction of apartment buildings requires the application of unique IBC requirements. This seminar focuses on those fire and life safety provisions that are generally limited to multi-family residential buildings. Provisions specific to residential building classification, construction type, fire-resistance, fire protection and means of egress will be addressed. Additionally discussion will include podium buildings, occupied roofs and accessibility scoping provisions of the IBC.

2023 NEC Analysis of Changes

This course will review and analyze key changes to the 2023 National Electrical Code (NEC)[®] by highlighting and explaining revisions to residential, commercial, and industrial design and installation requirements. This course is designed to help professionals learn the significant changes on topics such as conductors, grounding, surge protection and new technologies such as

COURSE DESCRIPTIONS - CONTINUED

Class 4 Fault managed power systems. This course will also address the revisions for renewable energy systems such as PV and ESS.

2021 IFC High Pile Storage

This course covers the key fire code requirements from IFC Chapter 32 on high-piled combustible storage.

It provides a basic understanding of the hazards associated with high-piled combustible storage and places special emphasis on the classification of commodities and understanding the design criteria in NFPA 13 for storage.

Learning Objectives for this course are:

- Describe the scope and application of IFC Chapter 32.
- Explain the special code definitions applicable to Chapter 32.
- Explain commodity classification based on Section 3203 criteria and interpret Figures 3203.9.1(1) and (2).
- Interpret Table 3206.2 to apply the requirements for high-piled combustible storage to plan review and inspections.

2021 IFC Hazardous Materials

The purpose of this course is to cover the hazardous material provisions that are outlined in both the IBC and the IFC. The course first covers the requirements of IBC Chapters 3 and 4 and then will dig into the more detailed provisions of Chapters 50 through 67 of the IFC. This course is laid out to assist design professionals, building officials, and fire code officials to better understand the requirements of both the IBC and IFC in relation to hazardous materials.

2021 IBC Fire & Smoke Protection Systems

This seminar provides a comprehensive review of the fire and smoke protection methods established in IBC Chapter 7. The concepts discussed will provide a basis for the analysis and identification of which components require fire-resistance ratings; where fire-resistance-rated construction is required in building construction; where smoke-resistant construction is mandated; and the use of fire door assemblies, fire window assemblies, penetration firestopping systems, fire dampers and smoke

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

COURSE INSTRUCTORS - CONTINUED

Year Award in 2008, recognizing his outstanding contributions in education and training.

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*.

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

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,

31st ANNUAL
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ICC BONNEVILLE CHAPTER ICC
DECEMBER 3rd, 4th, 5th, 2024

COURSE PATH	DECEMBER 3, TUESDAY	DECEMBER 4, WEDNESDAY	DECEMBER 5, THURSDAY
IBC ADVANCED	2021 International Existing Building Code AIA/ICC Preferred Provider WC-3, Chris Kimball Live & Virtual	Legal Aspects & Building Code Administration AIA/ICC Preferred Provider Shums Coda, Steve Thomas Live & Virtual	Designing to the IBC AIA/ICC Preferred Provider Shums Coda, Steve Thomas Live & Virtual
IRC Residential	2021 IRC Townhomes, Duplexes, & Accessory Dwelling Units AIA/ICC Preferred Provider Shums Coda, Steve Thomas Live & Virtual	2021 IRC Residential Electrical AIA/ICC Preferred Provider WC-3, Doug Smith Live & Virtual	2021 IRC Common Code Violations 2021 IRC Energy Update AIA/ICC Preferred Provider WC-3, George Williams Ursenbach Consulting, Brent Ursenbach Live & Virtual
MISCELLANEOUS	2021 IBC Means of Egress AIA/ICC Preferred Provider ICC, Doug Thornberg Live Only	2021 IBC Apartment Buildings AIA/ICC Preferred Provider ICC, Doug Thornberg Live Only	2023 NEC Significant Changes AIA/ICC Preferred Provider UL, Chirs Jensen Live & Virtual
FIRE SERVICE	2021 IFC High Pile Storage AIA/ICC Preferred Provider WC-3, Craig Hanson Live & Virtual	2021 IFC Hazardous Materials AIA/ICC Preferred Provider WC-3, Chris Kimball Live & Virtual	2021 IBC Fire Protection & Smoke Protection Systems AIA/ICC Preferred Provider ICC, Doug Thornberg Live Only

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, 2024 so proper accommodations may be provided

Pre-Registration Required for all Courses by November 25, 2024.

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

COURSE INSTRUCTORS - CONTINUED

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 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

COURSE INSTRUCTORS - CONTINUED

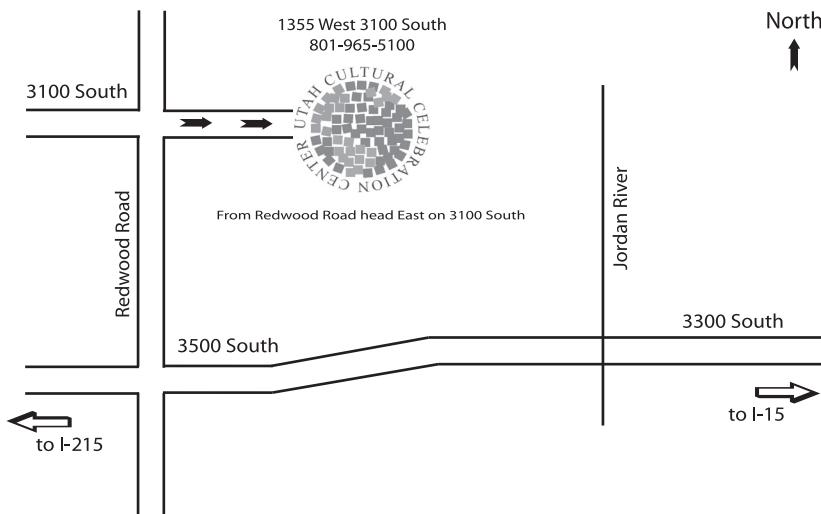
projects for Utah’s Division of Facilities and Construction Management (DFCM), performs complex commercial plan reviews for client jurisdictions, and oversees the development and direction of WC-3’s online training program through the WC-3 Academy.

Brent Ursenbach

Brent Ursenbach is a Building Construction Consultant, Instructor, Expert Witness, Energy/Mechanical Code Advisor, an ICC Certified Building Official, and a LEED BD+C Accredited Professional. He retired in 2018 from Salt Lake County, after 13 years as a Building Inspector. Recent experience includes 2 years as the mechanical and energy code specialist with West Coast Code Consultants. Previous experience also includes 33 years in HVAC contracting and 5 years adjunct faculty at Salt Lake Community College. He has served on numerous ICC Code Development and ACCA HVAC Standards Committees. He is a Past President on the RMGA (Rocky Mountain Gas Association) Board of Directors, served eight years as Chair-Utah UBCC Mechanical Advisory Committee, and the 2019 Utah Chapter ICC Jess Miller Award Recipient. Brent presents classes across Utah and the country, numerous seminars and classes on energy, mechanical and fuel gas code, as well as HVAC design principles. He received a B.S. in Sustainability Studies from U-Mass Amherst UWW.

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.



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 31st 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 can not issue CEU's for DOPL license numbers ending in 5501 for general contractors.

Registration Form

Name: _____

Title: _____ Representing: _____

Address: _____ City: _____ State: _____ Zip: _____

E-mail: _____ Telephone: _____

Inspectors: _____

DOPL # _____ ICC # _____

Architects: _____

DOPL # _____ AIA # _____

Electricians: _____

Journeymans #: _____ Masters #: _____

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 Registrations after 11/25/2024 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 that all classes begin at 8:00 A.M. *****

31th Annual Fall Educational Institute

Bonneville Chapter ICC

December 3rd, 4th, and 5th 2024

All classes listed are full day classes

Path	December 3 rd	December 4 th	December 5 th
IBC Advanced	<input type="checkbox"/> 2021 IEBC	<input type="checkbox"/> Legal Aspects & Administration	<input type="checkbox"/> Designing to the IBC
IRC Basics	<input type="checkbox"/> 2021 IRC Townhomes	<input type="checkbox"/> 2021 IRC Residential Electrical	<input type="checkbox"/> 2021 IRC Code Violations & Energy Update
Miscellaneous	<input type="checkbox"/> IBC Means of Egress	<input type="checkbox"/> 2021 IBC Apartment Buildings	<input type="checkbox"/> 2023 NEC Analysis of Updates
Fire Service	<input type="checkbox"/> 2021 IFC High Pile Storage	<input type="checkbox"/> 2021 IFC Hazardous Materials	<input type="checkbox"/> 2021 IBC Fire & Smoke Protection

Classes are 8-hour sessions. Refund Policy: \$10.00 processing fee until November 26, 2024. 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*****

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

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