

BONNEVILLE

CHAPTER

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

Nov. 29, 30, Dec. 1 2022

29th
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 Accessibility

Overview of the scoping provisions for accessibility in the International Building Code and the technical provisions of the ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities. The seminar will also discuss differences between the provisions enforced by building department and the American Disabilities Act Accessibility Guidelines. The discussion will include both commercial and residential requirements.

2021 Significant Changes

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 IBC Means of Egress

The design and construction of apartment buildings requires the application of both fundamental and unique IBC requirements. This seminar focuses on those provisions that are commonly encountered in these types of residential buildings. Provisions specific to residential building classification, fire-resistance, fire protection, means of egress and accessibility will be addressed. In addition, detailed provisions discussed will include podium buildings, occupied roofs, incidental uses and dwelling unit separations.

COURSE DESCRIPTIONS - CONTINUED

2021 IMC/IRC HVAC System Sizing

This class will focus on the 2021 IRC/IMC residential requirements for calculating building heating and cooling loads in accordance with ACCA Manual J, equipment selection in accordance with ACCA Manual S and duct sizing in accordance with ACCA Manual D. Proper HVAC design is a critical piece of a home's design that is often overlooked. The class will work through a typical house design to include, total heat gain, total heat loss, latent loads, sensible loads, equipment selection and duct design. We will walk through a Wrightsoft report and examine the designer's choices. Are the thermal envelope entries correct? Indoor and outdoor design temperatures, correct? Was the expended performance data for the heating cooling appliances provided? Are the appliances undersized? Oversized? Class is for code officials, builders, HVAC contractors and designers.

2021 IBC Extreme Plan Reviews & Inspections

Addresses the very large and unusual building plan review and inspections. The class will focus on high-rise construction, atriums, very large buildings and unusual projects. The class will also discuss the special inspection process and how to monitor the program. The discussion will address the review and inspections of alternate designs and performance-based design.

2021 IBC Multifamily Construction

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

COURSE DESCRIPTIONS - CONTINUED

Commercial & Residential Electrical Code Calculations

This course will cover the 2020 NEC rules for sizing conductors for branch circuits, feeders and services, including the specific requirements for motors, appliances, and air conditioners. This course will cover the rules for ampacity adjustment and correction factors for ambient temperature and bundling. The rules in Article 240 for Overcurrent protection will be discussed with examples and calculations.

Commercial & Residential Energy Storage Systems

Energy storage systems (ESS) are increasingly being installed throughout the country, especially in Utah. Understanding the requirements governing ESS, and knowing how the systems are to be installed, is essential. This course will focus on commercial and residential energy storage systems and will outline the key requirements and concepts for ESS. Key topics to be covered include UL 9540 listing, large-scale fire testing (UL 9540A), maximum equipment and system sizes, allowable locations, separation between battery units, clearances around equipment, disconnects/shutdown devices, and overcurrent protection. Example system diagrams will also be explained to help attendees understand the layout and equipment used for a variety of commonly installed residential ESS. This course will be beneficial for inspectors, plan reviewers, fire officials, installers, and designers. The course will be based on the 2018 *IFC*, 2020 *NEC*, and Utah State Amendments of the 2015 *IRC*.

2021 IBC Special Inspections

This seminar will dissect the requirements of Chapter 17 of the IBC. A detailed discussion will be provided for each designated special inspection, structural testing, and structural observation item listed in the building code. Project scenarios will be provided and a roundtable discussion will be had as to what inspection and testing items would be required for each example. A substantial

COURSE DESCRIPTIONS - CONTINUED

amount of time will be used to discuss what qualifications are necessary for special inspectors, testing agencies and structural observers. Each attendee will be provided with multiple templates that can be used to oversee the special inspection program within a jurisdiction.

2021 IFC Significant Changes

This course will cover the significant changes that have occurred between the 2018 IFC and the soon to be adopted 2021 IFC. The course will outline each change, discuss what prompted the changes, how the changes will impact plan review, installation and inspection of fire related systems in buildings.

2021 IFC Fire Protection Systems

Fire Suppression Systems - Start to Finish: This course will address a variety of fire suppression systems, discussing not only wet and dry fire sprinkler systems, but also other types of fire suppression. We will look at how these systems are designed, how shop drawings should be reviewed, how field inspections should be performed, and finally, how final acceptance testing should be conducted. This course will not only cover the basic principles but will also discuss unique items to look for throughout the system design review, installation and commissioning process for these various systems. At the completion of this course, the student will have a better understanding of how fire protection and suppression systems operate and the major items to verify during review, inspection, and acceptance testing. The course will also discuss fire alarm systems addressing provisions of the IFC and NFPA 72.

2021 IBC/IFC Hazardous Materials

The purpose of this course is to cover the hazardous material provisions that are outlined in both the 2018 International Building Code (IBC) and the 2018 International Fire Code (IFC). We will first discuss 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 in better understanding the requirements of both the IBC and IFC in relation to hazardous materials.

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.

Doug 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. In his current role, Doug

COURSE INSTRUCTORS - CONTINUED

also continues to create and present building code seminars nationally and has developed numerous educational texts and resource materials. A graduate of Kansas State University and a registered architect, Doug has over 40 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*

Gil Rossmiller

Having been in the construction industry for over 40 years, Gil brings a hands-on perspective to building code compliance. In 1994 he started his building code compliance career as a building inspector then plans examiner and served as the Chief Building Official for Parker, Colorado from 2003-2016. Gil has been active in building code development. He served on the International Residential Code/Plumbing and Mechanical code development committee for the 2009 and 2012 editions of the IRC. The International Commercial Energy Code development committee for the 2015 IECC & 2018 IECC. The Residential Energy Code Development committee for the 2021 and 2024 IECC and currently is on the ICC Code Correlation Committee. Gil was honored in 2012 with the first Energy Code Champion award given by The Institute for Market Transformation. Along with his current plans examining and inspection duties Gil has provided education for several organizations. International Code Council, Colorado Chapter ICC Educational Institute, EduCode, Region III, Washington Association of Building Officials, Johnson County Contractor Licensing Department and Arizona Building Officials.

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 senior regulatory engineer for UL. Chris' career highlights include:

29th ANNUAL
FALL EDUCATION CONFERENCE
BONNEVILLE COLLEGE
NOVEMBER 29, 2022

COURSE PATH	NOVEMBER 29, TUESDAY	M
IBC ADVANCED	2021 IBC ACCESSIBILITY VIRTUAL/LIVE AIA/ICC PREFERRED PROVIDER SHUMS CODA, STEVE THOMAS	2021 LIVE C AIA/IC ICC, D
FUNDAMENTALS/ CRITICAL TOPICS	2021 IMC/IRC HVAC SYSTEM SIZING VIRTUAL/LIVE AIA/ICC PREFERRED PROVIDER SHUMS CODA, GIL ROSSMILLER	2021 INSPE VIRTU AIA/IC SHUM
PLAN REVIEW	COMMERCIAL & RESIDENTIAL ELECTRIC CODE CALCULATIONS VIRTUAL/LIVE AIA/ICC PREFERRED PROVIDER UL, CHRIS JENSEN	COM STOR VIRTU AIA/IC WC-3
FIRE SERVICE	2021 IFC SIGNIFICANT CHANGES VIRTUAL/LIVE AIA/ICC PREFERRED PROVIDER WC-3, SCOTT ADAMS	2021 FIRE I FIRE A VIRTU AIA/IC WC-3

AIA C.E.U & ICC Preferred Provider C.E.U. CERTIFICATION
 If you have any special needs or disabilities, please contact Jerry Thompson (801)963-3276 for assistance.
 Pre-Registration Required

**ANNUAL
 ANNUAL INSTITUTE
 CHAPTER – ICC
 2-DECEMBER 1, 2022**

NOVEMBER 30, WEDNESDAY	DECEMBER 1, THURSDAY
2021 IBC SIGNIFICANT CHANGES ONLY ICC PREFERRED PROVIDER DOUG THORNBURG	2021 IBC MEANS OF EGRESS LIVE ONLY AIA/ICC PREFERRED PROVIDER ICC, DOUG THORNBURG
2021 IBC EXTREME PLAN REVIEWS & SECTIONS VIRTUAL/LIVE ICC PREFERRED PROVIDER SHUMS CODA, STEVE THOMAS	2021 IBC MULTIFAMILY CONSTRUCTION VIRTUAL/LIVE AIA/ICC PREFERRED PROVIDER SHUMS CODA, STEVE THOMAS
2021 COMMERCIAL & RESIDENTIAL ENERGY STORAGE SYSTEMS VIRTUAL/LIVE ICC PREFERRED PROVIDER SHUMS CODA, DOUG SMITH	2021 IBC SPECIAL INSPECTIONS VIRTUAL/LIVE AIA/ICC PREFERRED PROVIDER WC-3, CHRIS KIMBALL
2021 IBC/IFC PROTECTION SYSTEMS, AM ALARM SYSTEMS, PM VIRTUAL/LIVE ICC PREFERRED PROVIDER SHUMS CODA, SCOTT ADAMS	2021 IBC/IFC HAZARDOUS MATERIALS VIRTUAL/LIVE AIA/ICC PREFERRED PROVIDER WC-3, SCOTT ADAMS

CERTIFICATES AWARDED FOR MANY CLASSES Persons requiring assistance due to
 by November 18, 2022 ____ so proper accommodations may be provided
 for all Courses by November 18, 2022:

COURSE INSTRUCTORS - CONTINUED

- 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 5th Vice President 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 13 years and has been in the construction industry for over 19 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, SE, MCP, CBO

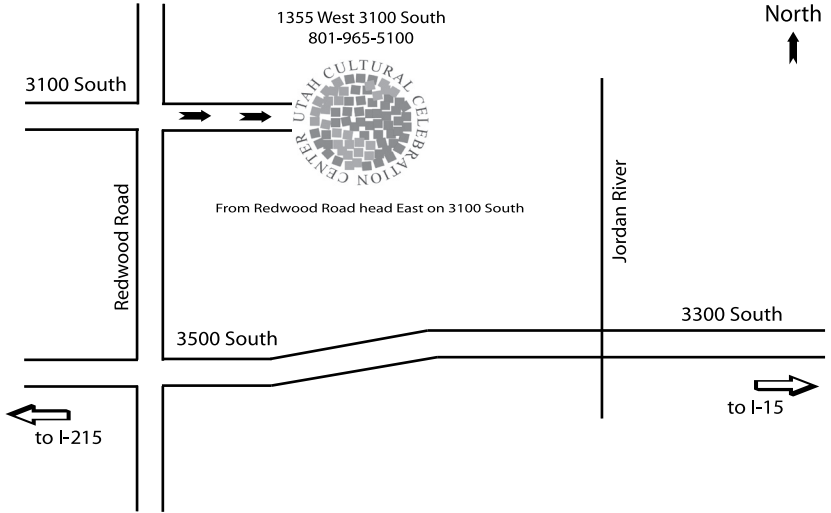
Mr. Kimball is a licensed engineer and an ICC Master Code Professional. He is also certified by ICC as a building official, fire code official, combination plans examiner, combination

COURSE INSTRUCTORS - CONTINUED

building inspector, fire plans examiner/inspector, and as an 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 official, design professional and contractor organizations all over the United States and written numerous code books on behalf of the ICC.

Scott Adams

Mr. Adams has over 30 years of experience in fire and life safety consulting in both municipal government and private practice. Mr. Adams graduated from the University of Maryland with a Bachelor of Science degree in Fire Protection Engineering. Mr. Adams has served and chaired various NFPA and ICC code development and technical committees. Mr. Adams is a licensed Fire Protection Engineer in the states of California and Nevada; and certified as an ICC Fire Code Inspector II and Building Plans Examiner. He served as Chairman for the 2002 Winter Olympics Fire Marshals Work Group and is a respected instructor throughout the US and Internationally.



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

Myung Ga
Hook & Reel
AppleBee's
Tonkotsu Ramen Bar
Fat Fish
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!)
Zupas
Wingers
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 29th 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 11/18/2022 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!!

29th Annual
Fall Educational Institute
Bonneville Chapter – ICC
November 29th, 30th, and December 1st, 2022
All classes listed are full day classes

Path	November 29th	November 30th	December 1st
IBC Advanced	<input type="checkbox"/> 2021 IBC Accessibility	<input type="checkbox"/> 2021 Significant Changes	<input type="checkbox"/> 2021 IBC Means of Egress
Fundamentals/ Critical Topics	<input type="checkbox"/> 2021 IMC/IRC HVAC System Sizing	<input type="checkbox"/> 2021 IBC Extreme Plan Reviews & Inspections	<input type="checkbox"/> 2021 IBC Multifamily Construction
Plan Review	<input type="checkbox"/> Commercial & Residential Elec. Code Calcs	<input type="checkbox"/> Commercial & Residential Energy Storage Systems	<input type="checkbox"/> 2021 IBC Special Inspections
Fire Service	<input type="checkbox"/> 2021 IFC Significant Changes	<input type="checkbox"/> 2021 IFC Fire Protection Systems	<input type="checkbox"/> 2021 IBC/IFC Hazardous Materials

All classes are 8-hour sessions. Refund Policy: \$10.00 processing fee until November 25, 2022. 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!!
<https://bonnevilleicc.org>

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