

# BONNEVILLE

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# CHAPTER

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

**Dec 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup>, 2020**

**27<sup>th</sup>**  
**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

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

- Join us for our 27<sup>th</sup> annual conference. As always we strive to maintain our tradition of excellent and relevant education at a reasonable cost.
- The conference will be held virtually with a combination of live and recorded 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.**

***Registration Form***

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

Title: \_\_\_\_\_ Representing: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

E-mail: \_\_\_\_\_ Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Inspectors:

DOPL # \_\_\_\_\_ ICC # \_\_\_\_\_

Architects:

DOPL # \_\_\_\_\_ AIA # \_\_\_\_\_

Electricians:

Journeyman's#: \_\_\_\_\_ Masters # \_\_\_\_\_

## *IBC ADVANCED TRACK: COURSE DESCRIPTIONS*

### **2018 International Existing Building Code**

This course covers the practical application of the IEBC. This course will help the attendee to understand how the IEBC is organized and will help assist in understanding the different compliance paths that are available. This course is designed to be a complete overview of the IEBC and is intended for both code and design professionals of all levels of expertise.

### **Accessibility Plans Examiner & Inspector**

This course teaches the practical application of ICC A117.1-09 and Chapter 11 and Appendix E of the IBC. This course is designed to be a complete overview of the IBC and serves as both an exam preparation course, as well as a review course for code professionals of all levels of expertise.

### **Multi-Family Construction**

This seminar is an 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. We will also discuss some of the most common mistakes on these types of projects.

## *SIGNIFICANT CHANGES TRACK*

### **Timber Frame and FRT Wood & Today's Model Code**

This half-day seminar will provide an interactive lecture on FRTW, supported by short videos and historical case studies. Course participants will learn about FRTW's history, manufacturing, durability, and its performance compared to steel, concrete, and painted/coated wood products. Code applications, including in the wildland-urban interface, and plan review/field compliance strategies will be emphasized.

## *SIGNIFICANT CHANGES CONTINUED*

### **Timber Frame Design for Vertical and Lateral Loads**

Heavy timbers have been used in structures for thousands of years. This course will cover a brief history and the recent changes in “Mass Timber” industry. Code reference and industry standards will be covered for Timber Frames used support vertical loads and as part of the lateral force resisting system. Topics such as materials, NDS governed connection, tradition mortise and tenon connections, and frame analysis will be will be discussed.

### **Residential Building Inspector**

This course teaches the practical application of the IRC. This course is designed to be a complete overview of the IRC which items to look for when completing a residential building inspection.

### **2018 IBC Mixed Use and 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
- Multi-story conditions

## *PLAN REVIEW TRACK: COURSE DESCRIPTIONS*

### **Combination Inspections of Small Commercial Buildings**

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

### **2020 NEC Update**

Learn the most essential changes to the 2020 NFPA 70 National Electrical Code (NEC)®. Don't let a change in code catch you unaware!

Learn about significant changes regarding GFCI protection, grounding conductors, lighting load calculations, surge protection and outdoor emergency disconnects for dwelling units, short circuit current rating for switchboards, switchgear, and panelboards, grounding and bonding of HVAC equipment on rooftops, areas covered and not covered in health care facilities, manufactured buildings and relocatable structures, GFPE and GFCI protection at marinas, boatyards and docking facilities, splash pads, and much more.

This comprehensive training presentation is based on IAEI's *Analysis of Changes, NEC-2020*, a must-have resource. This presentation covers 8 hours of material for electrical CEU's. It is intended for use with its companion IAEI book *Analysis of Changes, NEC-2020*

### **2020 NEC Solar PV Plan Review Class**

Solar photovoltaic (PV) system installations continue to increase throughout the country. Thorough plan reviews and inspections are essential for their safe installation. This full day course will give many examples of different types of solar PV systems and will walk the class step by step through the plan review process for each one. The course will explain key requirements concerning site plans, line diagrams, and manufacturer spec sheets. Topics also covered include: rapid shutdown of systems, disconnect locations, point of interconnection requirements, roof fire access clearances, equipment/wiring installation, wire/breaker sizing, and signage. This course will be very beneficial for plan reviewers and inspectors, but will also be helpful for solar contractors and designers to better understand what information is required on solar PV plans. This course is based on the 2017 NEC and 2018 IBC/IRC. However, certain requirements in the 2020 NEC will also be explained.

## ***FIRE SERVICE TRACK: COURSE DESCRIPTIONS***

### **2018 IBC Fire & Smoke Protection Features**

This seminar addresses the critical concepts of the 2018 International Building Code® (IBC®) regarding Chapter 7, Fire and Smoke Protection Features. These concepts provide a basis for the analysis and identification of which components require fire-resistance ratings; where the 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 fire stopping systems, fire dampers and smoke dampers.

### **Special Uses & Alternate Designs**

This class reviews the use of 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 so they will have a better understanding of how to review or submit alternates. The discussion will include Medical Cannabis facilities, Shipping Containers, and other case studies.

### **2018 IBC & IFC Fire Protection Systems**

This seminar is designed to guide participants through the 2018 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. Because the 2018 IFC and Chapter 9 of the 2018 IBC have such broad scopes, the focus of this seminar is to review design, construction, inspection and testing requirements for:

- Fire sprinkler systems
- Fire-extinguishing systems
- Standpipe systems
- Fire alarm and detection systems
- Smoke control systems
- Smoke removal systems

## ***COURSE INSTRUCTORS:***

### **Stephen L. Thomas, CBO**

Mr. Thomas has over thirty-five 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. Starting a building code-consulting firm in 1999, he has served as the contract Building Official for 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 is also the author of the book, Building Code Basics, based on the 2009 & 2012 IBC and Building Code Essentials based on the 2015 IBC, both available from ICC. He and his firm were awarded the Educator of the Year Award by the ICC in 2018. He has presented building code classes for the last 30 years and provides an interesting and engaging look at building codes.

### **Todd Snider, PE, SE**

Todd Snider serves as the regional manager for WC3's Utah Operations. He has more than 13 years of experience as a plans examiner and structural design professional. He is a licensed structural engineer and has a Master's degree in Structural Engineering. Todd is certified by ICC as a commercial building, energy, and accessibility plans examiner as well as a commercial building inspector. He has taught courses to many local ICC chapters as well as design professional organizations.

**27<sup>th</sup> AN**  
**FALL EDUCATION**  
**BONNEVILLE C**

<b>COURSE PATH</b>	<b>DECEMBER 1<sup>st</sup> TUESDAY</b>	<b>D</b>
<b>IBC ADVANCED</b>	2018 International Existing Building Code Chris Kimball, WC3 Virtual – Pre-Recorded AIA/ICC Preferred Provider CEUs	IBC, IR Todd S Virtual AIA/ICC
<b>SIGNIFICANT CHANGES</b>	Timber Frame & FRT Wood & Today's Model Code Paul Thorley, Mike Echhoff Virtual – Pre-Recorded ICC Preferred Provider CEUs	Reside George Consult Virtual AIA/ICC
<b>PLAN REVIEW</b>	Combination Inspections of Small Commercial Buildings Steve Thomas, Colorado Code Consultants Virtual – Live AIA/ICC Preferred Provider CEUs	2020 N Chris J Virtual ICC Pre
<b>FIRE SERVICE</b>	2018 IBC Fire & Smoke Protection Features Rob Neale, ICC Virtual – Live AIA/ICC Preferred Provider CEUs	Special Thoma Virtual AIA/ICC



**ANNUAL  
INSTITUTE  
CHAPTER – ICC**

<b>DECEMBER 2<sup>nd</sup> WEDNESDAY</b>	<b>DECEMBER 3<sup>rd</sup> THURSDAY</b>
<p>ICC Accessibility Nyder, WC3 – Pre-Recorded ICC Preferred Provider CEUs</p>	<p>Multi Family Construction Steve Thomas, Colorado Code Consultants Virtual – Live AIA/ICC Preferred Provider CEUs</p>
<p>Initial Building Inspections Williams, West Coast Code Consultants – Pre-Recorded ICC Preferred Provider CEUs</p>	<p>2018 IBC Mixed Use &amp; Occupancies John Gibson, ICC Virtual – Live AIA/ICC Preferred Provider CEUs</p>
<p>NEC Update ensen, UL – Live Preferred Provider CEUs</p>	<p>2020 NEC solar PV plan review class. Doug Smith, WC3 Virtual – Live AIA/ICC Preferred Provider CEUs</p>
<p>IBC Uses &amp; Alternate Designs Steve s, Colorado Code Consultants – Live ICC Preferred Provider CEUs</p>	<p>2018 IBC &amp; IFC Fire Protection Systems Scott Adams, ICC Virtual – Live AIA/ICC Preferred Provider CEUs</p>

AWARDED FOR ALL CLASSES -

## **COURSE INSTRUCTORS:** *CONTINUED*

### **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:

- 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 5<sup>th</sup> 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**

Doug Smith has been an inspector for over 15 years and has been in the construction industry for over 21 years. He began his career with Kaysville City, Utah as a Building Inspector starting in early 2005 and worked for Kaysville City for almost 9 years. He then joined West Coast Code Consultants (WC3) in October of 2013. During his career he has obtained 19 ICC certifications including Certified Building Official and Certified Master Code Professional. As for his understanding of the building codes, you could say he's "well

## **COURSE INSTRUCTORS:** *CONTINUED*

rounded,” but particularly he specializes in electrical code requirements and is especially knowledgeable on the topic of solar photovoltaics and energy storage systems (ESS). Doug has taught many electrical and solar photovoltaic classes over the years for various organizations in Utah. He has also taught classes in California, Nevada, Idaho, Montana, and Oregon. With WC3 he primarily performs electrical, solar PV, and ESS plan reviews. As far as solar and ESS reviews are concerned, typically he performs over 1,500 reviews each year for many jurisdictions in Utah, California and Idaho. The largest solar PV system plan review that he has performed was a 400 mega-watt California Energy solar PV project which includes over two million solar panels.

### **Chris Kimball, SE, MCP, CBO**

Chris Kimball is a vice president for WC3. He is a licensed structural engineer, and is an ICC Master Code Professional, certified building official, combination plans examiner, and combination building inspector. He has performed plan reviews for thousands of projects throughout Utah, Wyoming, Nevada, California, Arizona, and Texas. In addition, Chris has provided numerous training classes to help design professionals, building officials, and contractors alike to understand the requirements of the adopted building codes.

### **Scott Adams**

Mr. Adams graduated from the University of Maryland with a Bachelor of Science degree in Fire Protection Engineering. Mr. Adams is certified as an ICC Fire Code Inspector II and Building Plans Examiner. Mr. Adams is employed with West Coast Code Consultants, Inc. and provides third party plan review and inspection services for fire sprinkler systems, fire alarm systems, specialized fire protection and detection systems, smoke management systems and detailed water supply analysis. Mr. Adams recently retired from Park City Fire Service District where he

## ***COURSE INSTRUCTORS: CONTINUED***

served as the Assistant Fire Chief / District Fire Marshal. Mr. Adams served as Chairman for the 2002 Winter Olympics Fire Marshals Work Group and was instrumental in developing the fire and life safety guidelines that were used in both permanent and temporary Olympic facilities and the planning and implementation of fire prevention and exiting programs for the games. Mr. Adams is currently serving as Chairman for the ICC Governing Committee for the Fire Service Membership Council and has served as President for the International Fire Marshal's Association.

### **George Williams**

George Williams has worked in various aspects of the code professional industry dating back to 2005. He is an ICC Master Code Professional, and Certified Building Official and holds a wide variety of ICC and IAPMO certifications. He has extensive experience as a building official, commercial building inspector, commercial plans examiner, energy code consultant, accessibility consultant and residential code administrator. He has a master's degree in construction management and experience teaching a wide array of code courses both in the classroom and online.

### **John Gibson**

John is the Technical Manager/ Education and an Instructor for the International Code Council (ICC). A certified Master Code Professional and Certified Fire Marshal; he has forty- five (45) other certifications, including thirty-six (36) from the ICC. Having earned a B.S. in Engineering from the University of Delaware, he has also studied Architecture at Georgia Tech and completed courses in Emergency Management and Fire Prevention at the National Emergency Training Center. Formerly the Director of the Department of Permits and Inspections for Frederick County Maryland, he is an ICC Honorary Member, has served on the ICC- Evaluations Services (ICC- ES) Board of Directors, the ICC Code Correlating Committee, the Board of Directors for BOCA

## **COURSE INSTRUCTORS:** *CONTINUED*

International, Inc., Maryland's Governor's Smart Code Strategy Group, Chaired the ICC Board for International Professional Standards and is an Honorary Member and Past President of the Maryland Building Officials Association. He currently teaches ICC administrative, building, residential, existing building, permit technician, property maintenance, zoning, green building, fire, wildland/urban interface, energy courses, and is a contract instructor at the Dept. of Homeland Security, United States Fire Administration, National Fire Academy, Emmitsburg, MD. He received the ICC Educator of the Year award in 2010.

### **Rob Neale**

Rob Neale is the owner and principal of Integra Code Consultants, a Maryland-based firm that provides construction code consulting, plan review and training. Previously, he was the International Code Council's Government Relations Vice President for National Fire Service Activities where he coordinated efforts to get the US fire service more engaged in the code development and enforcement process. Rob also served 15 years as the Deputy Superintendent for Curriculum and Instruction at the United States Fire Administration National Fire Academy in Emmitsburg, MD. He spent the first 22 years of his career as a municipal fire marshal and fire chief in the Pacific Northwest.

### **Mike Eckhoff**

Mike Eckhoff is a public policy expert with over 15 years of experience in the forest products industry. He has worked on sustainable wood utilization in the Rocky Mountain West for both the Colorado State Forest Service and the USDA Forest Service. Currently, he is a Codes and Education Specialist with Hoover Treated Wood Products, Inc., where he provides fire-retardant-treated wood (FRTW) design consultation to architects, engineers, and regulators. He has delivered over one-hundred invited presentations on sustainable wood products, including FRTW, to firms, municipalities, local media, and universities throughout the United States. He earned his Ph.D. in Forest Science from Colorado State University in Fort Collins.

## ***COURSE INSTRUCTORS:*** *CONTINUED*

### **Paul Thorley, S.E.**

Paul Thorley is the Founder and President of Acute Engineering, Inc. ([www.acuteengineering.com](http://www.acuteengineering.com)) a local engineering firm with offices in Orem and Sandy Utah. He received an Associate's degree from Moorpark College and a Bachelors and Master's degree from Brigham Young University. For the last five years he has served as the Structural Engineers Emergency Response Chair for SEAU. He has provided training on light frame structural engineering to the Utah Chapter ICC Annual Business meeting and Education Conference. Paul has engineered hundreds of Timber frame projects and has published several papers and sponsored original research in timber frame design included such topics as; tensile capacity of mortise and tenon connections, Interlocking cross laminated timbers, and timber frame knee braces in lateral design. He has been a member of and presented to the Timber Frame Engineering Council (TFEC).

## 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: \$85 per Person per Day. **Contractors must add \$10.00 processing fee per license for the State contractor reporting. Late Registration after 11/20/2020 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 \$85.00.

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!!

### 27<sup>th</sup> Annual

## Fall Educational Institute

Bonneville Chapter – ICC

December 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup>, 2020

***All classes listed are full day classes***

Path	December 1 <sup>st</sup>	December 2 <sup>nd</sup>	December 3 <sup>rd</sup>
<b>IBC Advanced</b>	<input type="checkbox"/> 2018 IEBC	<input type="checkbox"/> Accessibility Plans Examiner & Inspector	<input type="checkbox"/> Multi Family Construction
<b>Fundamentals/ Critical Topics</b>	<input type="checkbox"/> Timber Frame & FRT Wood in Todays Code	<input type="checkbox"/> 2018 IRC Building Essentials	<input type="checkbox"/> 2018 IBC Mixed Use & Occupancies
<b>Plan Review</b>	<input type="checkbox"/> Combination Inspections of Small Commercial Buildings	<input type="checkbox"/> 2020 NEC Update	<input type="checkbox"/> 2020 NEC Solar PV Plan Review
<b>Fire Service</b>	<input type="checkbox"/> 2018 IBC Fire & Smoke Protection	<input type="checkbox"/> Special Uses & Alternate Designs	<input type="checkbox"/> 2018 IBC & IFC Fire Protection Systems

All classes are 8-hour sessions. Refund Policy: \$10.00 processing fee until November 27, 2020. Thereafter, maximum 80% for exceptional reasons. REQUESTS MUST BE IN WRITING.

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

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