

Agenda

Presented by Edward Fronapfel

Development and Enforcement of International Residential Code

History of the International Residential Code (IRC)
Adoption and enforcement of International Residential Code
Recent and anticipated Code amendments
Future of the Code

Building Planning and Shell Construction (Chapters 2-10)

Definitions	Alternative provisions and design criteria
Wind effects and protection of openings	
Seismic provisions	Story height and live loads
Snow loads	Fire-resistant construction and exterior walls
Dwelling unit separations and garage separation	
Ceiling heights	Glazing
Garages and carports	Ingress, egress and stairways
Fire and carbon monoxide safety and detection	
Foam plastic	Wood and wood-based products
Accessibility	Floods, storms and drainage
Soils and foundations	Framing and fastening
Walls and wall covering	Roof/ceiling construction
Roof assemblies	Fireplaces and chimneys

Energy Efficiency (Chapter 11)

Compliance	Building thermal envelope
Climate classifications	Permanent energy certificate
Insulation and fenestration	Building systems
Lighting	

Mechanical, Fuel, Plumbing and Electrical Systems

Appliance installation and exhaust systems	
Ventilation	Hydronic systems
Fuel gas systems and appliances	Plumbing fixtures
Drains	
Backflow preventers, venting, sumps and ejectors	
Fire sprinkler systems	Electrical system grounding
Intersystem bonding termination	Overcurrent devices
Electrical outlets	Luminaires
Pools, spas and hot tubs	

International Residential Code 2018
Live, Interactive Webinar - Thursday, October 22, 2020

NON-PROFIT
U.S. POSTAGE PAID
EAU CLAIRE, WI
PERMIT NO. 2016

HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Reference International Residential Code (IRC) provisions for ingress, egress, stairways, emergency egress, and fire and carbon monoxide safety and detection.

Comply with IRC provisions for wind effects, seismic activity, snow loads, live loads, and floods, storms and drainage.

Reference IRC provisions for residential energy efficiency, including insulation and fenestration, the thermal envelope, and lighting.

Comply with IRC provisions for residential mechanical, fuel, plumbing and electrical systems, including appliance installation and exhaust systems, ventilation, fuel gas systems, plumbing fixtures, backflow preventers, fire sprinkler systems, electrical grounding, and electrical outlets.



Find us on
Facebook

HalfMoon Education Online Learning

International Residential Code 2018

Live, Interactive Webinar - Thursday, October 22, 2020



Discuss the International Residential Code's adoption and enforcement in the state of Colorado.

Identify code requirements for the building shell, including foundations, floors, walls, ceiling and roofs.

Define energy efficiency requirements and evaluate various compliance methods.

Enhance your understanding of requirements for fire safety and detection systems.

Understand requirements for backflow preventers, venting, sumps and ejectors.

Continuing Education Credits

Professional Engineers

6.5 PDHs

AIA

6.5 LU|HSW

Architects

6.5 HSW CE Hours

International Code Council

.65 CEUs (Building)



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG



AIA
Continuing
Education
Provider

PREFERRED
EDUCATION
PROVIDER

Faculty

Edward Fronapfel *Fellow Member of NAFE, Owner, SBSA, Inc.*

Mr. Fronapfel holds a bachelor of science degree in Civil Engineering and a master of science degree in Civil Engineering with an emphasis in forensic and structural engineering. He is a board certified building inspection engineer through the National Academy of Building Inspection Engineers and a fellow member of the National Academy of Forensic Engineers. In addition, Mr. Fronapfel is a level 2 thermographer and a level 2 post tension examiner. He is certified by the National Association of Certified Home Inspectors and is a third party Exterior Design Institute inspector. He teaches as an adjunct professor at the University of Denver in the Burn’s School of Real Estate and Construction Management. Courses include Estimating, Project Management and Control, Sustainability in Construction, Residential Construction Systems and Environmental Systems and MEP. His work experience encompasses geohydraulic engineering, hydraulics, hydrology, civil and structural engineering for new development, warranty work, property claim support, repair and rehabilitation design. Mr. Fronapfel’s building science work includes interior ventilation control; HVAC sizing verifications and analysis; and moisture management systems for attics, crawlspaces and basements for residential and commercial structures. He has additional background in masonry, stucco, EIFS, and many components used for cladding buildings from foundation systems to roofing systems. Mr. Fronapfel’s experience includes over 450 deposition testimonies and over 55 trial testimonies, as well as hundreds of mediations, and arbitrations. He is a registered engineer in Alabama, Arizona, Colorado, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Louisiana, Michigan, Minnesota, Mississippi, Montana, Missouri, Nebraska, New Jersey, Nevada, New Mexico, North Carolina, North Dakota, Oklahoma, Oregon, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, and Wyoming. Mr. Fronapfel holds active memberships in many professional organizations including RCI, AIA, NSPE, CABO, RESNET and others. He is a published writer in *The Journal of RCI*, *The Forensic Engineering Task Force*, *The Investigative Engineer*, *The I-ENG-A Report*, *Colorado Claims Guide*, *Building Integration Solutions*, *Construction Accounting and Taxation*, and *The Journal of Forensic Engineering*.

Webinar Information

Log into Webinar 8:00 - 8:30 am MDT	Break 11:45 am - 12:45 pm MDT
Morning Session 8:30 - 11:45 am MDT	Afternoon Session 12:45 - 4:30 pm MDT

Tuition
\$299 for individual registration
\$199 for three or more registrants from the same company at the same time.
Included with your registration: PDF seminar manual.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit www.gotowebinar.com.

Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

Can’t Attend? Order the Webinar as a Self-Study Package!
Recordings of this webinar are available for purchase. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Additional Learning

Designing for Accessibility under ADA Standards and IBC

- Tuesday, October 6, 2020 | 8:30 am - 12:15 pm CDT
- Wed., October 7, 2020 | 8:30 am - 12:15 pm CDT

Preventing and Addressing Construction Defects and Failures

- Tues., October 13, 2020 | 8:30 am - 5:00 pm CDT

Construction Cost Estimating and Value Engineering

- Wed., October 14, 2020 | 8:30 am - 3:20 pm CDT

Structural Steel Design Concepts

- Thurs., October 15, 2020 | 8:00 am - 1:30 pm CDT

Commercial Energy Conservation Code Essentials for Architects

- Fri., October 16, 2020 | 11:00 am - 2:15 pm CDT

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina (S-0130), and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Registration

International Residential Code 2018
Live, Interactive Webinar - Thursday, October 22, 2020

How to Register	
Online: www.halfmoonseminars.org	
Phone: 715-835-5900	
Fax: 715-835-6066	Code:
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
Complete the entire form. Attach duplicates if necessary.	
Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____	
Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____	
Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.	
() I need special accommodations. Please contact me.	

Tuition

() **I will be attending the live webinar.** Single Registrant - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.

() **I am not attending.** Please send me the webinar recording:

☐ Streamable MP4 Video/PDF Manual for **\$279.00**.

☐ USB Video/PDF Manual for **\$279.00**.

Checks: Make payable to HalfMoon Education Inc.

Credit Card: Mastercard, Visa, American Express, or Discover

Credit Card Number: _____

Expiration Date: _____ CVV2 Code: _____

Cardholder Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Email: _____