Credit Information

International Building Code 2021

This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed 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), and North Carolina (S-0130). 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 7.0 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

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

Residential and Small Commercial Solar Photovoltaic Energy Systems

This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects licensed 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), and North Carolina (S-0130). 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 Energy (Preferred Provider No. 1232).

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

Can't Attend? Order the Webinar as a Self-Study Package!
Recordings of each webinar are available for purchase. See course listing online 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. Self-study packages do not qualify for AIA credit.

Live, Interactive Webinars
- International Building Code 2021
- Residential and Small Commercial Solar Photovoltaic Energy Systems

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

Live, Interactive Webinars

International Building Code 2021
- Thursday, August 26, 2021 | 10:00 am - 2:30 pm CDT
- Friday, August 27, 2021 | 10:00 am - 1:30 pm CDT

Residential and Small Commercial Solar Photovoltaic Energy Systems
- Friday, August 27, 2021 | 8:30 am - 4:30 pm CDT

To register, view detailed presenter biographies, and see other learning opportunities, please visit:

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International Code Council: .65 CEUs (Energy)

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Tuition: $289 per registrant, $199 per registrant for three or more

Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours
AIA: 7.0 LU|HSW International Code Council: .7 CEUs (Building)

Agenda Day One

Building Code Background and Application

- Development of the International Building Code 2021
- Code adoption process
- Five disasters that shaped modern building codes
- Local building codes
- Major changes in the IBC 2021 – new fire detection and protection provisions, new mass timber requirements, and new requirements for specific occupancies

Building Classification, Occupancy and Safety

- Chapter 3 – occupancy classification and use
- Chapter 6 – the five types of construction
- Chapter 5 – building height and area
- Chapter 10 – means of egress
- Review exercise

Agenda Day Two

Special Cases and Interior Requirements

- The five most expensive questions in code analysis
- Chapter 7 – passive fire protection
- Chapter 4 – special detailed requirements
- Small group exercise – new headquarters
- Chapter 11 and 13 accessibility energy efficiency
- Review take-home exercises

Structure and Specific Materials

- Chapter 8 interior finishes
- Chapter 12 interior environment
- Chapter 16 – 24 structural design and structural materials
- Chapter 23 – 26 class, gypsum board, plastic
- Chapter 27 – 30 electrical mechanical, plumbing, elevators
- Chapter 9 fire protection systems, fire and smoke protection

Safety Requirements During Construction

- Chapter 33 – safeguards during construction
- Protection of workers, public, and adjoining property
- Questions and wrap-up

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Residential and Small Commercial Solar Photovoltaic Energy Systems

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Tuition: $289 per registrant, $199 per registrant for three or more

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
AIA: 6.5 LU|HSW International Code Council: .65 CEUs (Energy)

Agenda

Solar Photovoltaic (PV) Energy System Basics

- History of solar PV systems
- Statistics on current installations
- Applications for solar systems
- Certifications and permitting

Solar PV Economics

- Cost of components
- Net metering
- Lifecycle analysis
- Incentives
- Calculating payback
- Solar renewable energy certificates

Solar PV System Siting and Sizing

- Analyzing power needs
- Evaluating the site
- Grid-tied and off-grid systems

Solar PV System Materials and Design

- Performance modeling software
- System modules
- Inverters and microinverters
- Racking and mounting systems
- Balance of system components
- Interconnection and batteries

Codes, Wiring, Connections and Commissioning

- Utility interconnection
- Safety requirements
- Grounding requirements
- Labeling requirements
- Testing and commissioning

Case Studies or Small Group Exercise on System Design

- Students can submit ideas for case studies and/or design exercises

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Faculty

International Building Code 2021

Lawrence Lile, PE, LEED AP BD+C, QCxP *Owner of Lile Engineering in Ashland, MO*

Mr. Lile is the owner of Lile Engineering, which specializes in commercial energy solutions and LEED certification consulting. He has worked in the design industry for over 30 years, on healthcare, industrial, commercial and educational construction projects. Mr. Lile been involved in electrical and mechanical design, as well as construction management and commissioning. He has volunteered for local city boards and commissions, including the City of Columbia Energy and Environment Commission, which he chaired from 2009 – 2015, helping the City review and adopt new building codes. Mr. Lile is a licensed professional engineer in Missouri.

Residential and Small Commercial Solar Photovoltaic Energy Systems

Clay Sterling *Midwest Renewable Energy Association*

Mr. Sterling has been instructing both solar photovoltaic (PV) and wind courses at the Midwest Renewable Energy Association (MREA) for over ten years and is an Interstate Renewable Energy Council (IREC) certified instructor in both PV and small wind energy. He has a construction background gained from working in his family's plumbing shop and working nine years as a commercial electrician on large construction projects. In 2009, Wisconsin's K-12 Energy Education Program named him the "Non-Formal Energy Educator of the Year." He also received the "Clean Energy Trainer of the Year" award in 2013 from the IREC.

Additional Learning

Structural Forensic Engineering
- Tues, July 27, 2021|11:00 am - 2:30 pm CDT
- Wed, July 28, 2021|11:00 am - 2:30 pm CDT

Architectural Application for Means of Egress in 2018 IBC
- Wed, July 28, 2021|9:00 am - 4:30 pm CDT

Project Management for Engineers
- Wed, July 28, 2021|8:30 am - 4:30 pm CDT

2018 IBC Mixed Occupancies, Allowable Area, and Type of Construction
- Thurs, July 29, 2021|8:30 am - 5:00 pm CDT

Slope Stabilization and Landslide Prevention
- Tues, Aug 3, 2021|8:30 am - 5:00 pm CDT

Basics of Structural Steel Design
- Thurs, Aug 5, 2021|8:30 am - 3:45 pm CDT

International Existing Building Code 2021
- Thurs, Aug 5, 2021|9:00 am - 4:30 pm CDT

Introduction to GNSS Surveying
- Thurs, Aug 5, 2021|10:30 am - 2:30 pm CDT
- Fri, Aug 6, 2021|10:30 am - 2:30 pm CDT

Deep Energy Retrofits
- Fri, Aug 6, 2021|8:30 am - 3:30 pm CDT

Shallow Foundation Design, Construction, and Repair
- Tues, Aug 10, 2021|8:30 am - 5:00 pm CDT

Small Wind Energy Systems
- Wed, Aug 11, 2021|8:30 am - 4:30 pm CDT

Participating in the WELL Building Certification Process
- Wed, Aug 18, 2021|12:00 - 4:00 pm CDT
- Thurs, Aug 19, 2021|12:00 - 4:00 pm CDT

2021 International Wildland-Urban Interface Code
- Thurs, Aug 19, 2021|8:30 am - 4:30 pm CDT

Soil Mechanics, Bearing Capacity and Slope Stabilization
- Fri, Aug 20, 2021|8:30 am - 4:30 pm CDT

Designing for Accessible Pedestrian Facilities
- Fri, Aug 20, 2021|9:00 am - 4:30 pm CDT

Designing for Accessibility under ADA Standards and IBC
- Tues, Aug 24, 2021|8:30 am - 12:15 pm CDT
- Wed, Aug 25, 2021|8:30 am - 12:15 pm CDT

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