

Credit Information

Engineered Lumber Design and Construction

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 prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Complying with Commercial Provisions of the 2021 International Energy Conservation Code

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Live, Interactive Webinars

- Engineered Lumber Design and Construction
- Complying with Commercial Provisions of the 2021 International Energy Conservation Code

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Live, Interactive Webinars

Engineered Lumber Design and Construction

- Tuesday, March 8, 2022 | 8:30 am - 12:10 pm CST
- Wednesday, March 9, 2022 | 8:30 am - 12:10 pm CST

Complying with Commercial Provisions of the 2021 International Energy Conservation Code

- Wednesday, March 9, 2022 | 8:00 am - 4:00 pm CST

To register, view detailed presenter biographies,
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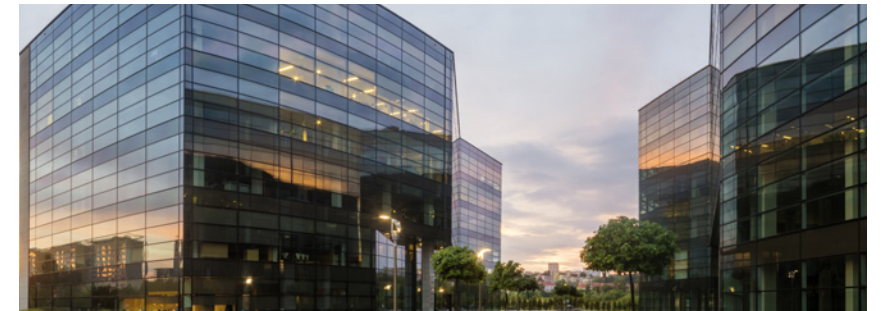
HalfMoon Education Live Webinars



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AIA: 7.0 LU | HSW International Code Council: .7 CEUs (Building)



Complying with Commercial Provisions of the 2021 International Energy Conservation Code

Wednesday, March 9, 2022 | 8:00 am - 4:00 pm CST

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

AIA
Continuing
Education
Provider



Engineered Lumber Design and Construction

Tuesday, March 8, 2022 | 8:30 am - 12:10 pm CST (incl. a 10-min break)
Wednesday, March 9, 2022 | 8:30 am - 12:10 pm CST (incl. a 10-min break)
Tuition: \$289 per registrant, \$239 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**
- Section 1 - Engineered Wood Products: Introduction & Specification (EWP 005/006)**
- Develop an understanding of engineered lumber terminology
 - Review proper installation methods when using engineered lumber products
 - Gain a better understanding of how to properly inspect the framing for manufacture compliance
 - Use manufacture literature to properly specify engineered lumber floor systems

- Section 2 - Engineered Wood Products: Specification & Inspection (EWP 06/007)**
- Utilize both code details and manufacture details to provide clear direction for plan review and proper construction
 - Identify what quantifies poor specification but more importantly identify what constitutes proper specification
 - Learn the recommendations of a manufacturer for proper installation and inspection of engineered lumber floor systems
 - Use manufacturer provided literature to find proper details to be used in the inspection of and installation of engineered lumber floor systems
 - Identify bad installation through inspection and how to remedy issues
 - Jobsite photos – Good, bad and ugly

- Section 3 - Engineered Wood Products: Load Development (EWP 008)**
- Learn how to size I-joists

- Agenda Day Two**
- Continued - Section 3 - Engineered Wood Products: Load Development (EWP 008)**
- Learn how to size and select structural beams
 - Acquire skills needed to apply various framing details and connections used in the engineered lumber products industry

- Section 4 – Fire-Resistive and Fire-Rated Assemblies with Wood (EWP 004)**
- Learn the difference between fire-resistive and fire-rated assemblies; addressing and detailing for fire as it relates to building systems
 - Learn the facts about engineered wood products and their fire performance
 - Exception methods to comply with Section R501.3 of the 2012 IRC. e.; enable a understanding to apply the appropriate methods and materials discussed
 - Fire-rated assemblies with engineered wood products; design to meet this section of the building code

- Section 5 – Introduction to Multi-Family Construction using EWP (EWP 009)**
- Develop an understanding of the types of construction classifications and load types
 - Understand the common building configuration types
 - Learn some of the typical construction details regarding this type of construction
 - Look into the tools available by most manufacturers when designing multi-family structures
 - Wrap up and review

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Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours
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- Agenda**
- Development of the 2021 International Energy Conservation Code**
- ASHRAE/IESNA 90.1
 - Identifying projects to which the Code applies
 - Code application and enforcement
 - Overview of changes to the 2021 IECC
 - HVAC, air infiltration
 - Service hot water, energy-recovery
 - Compliance paths

- Code Compliance Pathways**
- Prescriptive Performance
 - Energy Rating Index (ERI)

- Building Thermal Envelope**
- Weather-resistive barriers
 - Vapor barriers, air barriers and thermal boundaries
 - Calculating insulation thickness/U factors
 - Slab insulation
 - Advanced framing methods
 - Fenestration requirements, requirements for doors and entrances
 - Insulation requirements
 - Foundation/basement insulation

- Building Systems**
- Heating, ventilating and air conditioning systems
 - Service water heating
 - Power and lighting

- Existing Buildings**
- Additions, alterations and repairs
 - Historic buildings

- Case Studies in Code Compliance**
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Faculty

Engineered Lumber Design and Construction

Scott Lyons *Boise Cascade Engineered Wood Products*
Mr. Lyons has 15 years’ experience in the building materials industry, including roofing, insulation, granite, dimensional lumber and engineered wood products. He is currently the multi-family/light commercial manager responsible for educating and driving specification for Boise Cascade engineered wood products within that segment.

Complying with Commercial Provisions of the 2021 International Energy Conservation Code

Eric Oliver PE, CEM, LEED AP founded Earthwide, LLC, in 2019 to provide energy and sustainability master planning, CO2 reduction action plans, and energy and sustainability consulting services.

A passionate energy conservationist with over 30 years of energy and sustainability management, he has specialized in energy efficiency, renewable energy, sustainable design, energy audits and retro-commissioning, and facility assessments, for buildings in the commercial, educational, and government sectors.

In 1998, Mr. Oliver founded EMO Energy Solutions, LLC - one of the fastest growing energy conservation and sustainability companies in the DC area in the 2000s - and served as its president until 2017. As president, Mr. Oliver:

- Led EMO Energy to Inc. 5000 fastest growing company status in 2009.
- Was awarded “EcoCEO of the Year” by *Smart CEO* magazine in 2008
- Led over 800 energy audits, covering over 120 million ft² of building space
- Supported more than 350 LEED projects, including full certification for almost 100

Mr. Oliver has managed hundreds of domestic and international projects, conducted training seminars, and developed comprehensive energy awareness and education campaigns. Has published articles in multiple journals and magazines and has been a presenter and moderator at dozens of energy conferences.

He is currently president-elect for the Association of Energy Engineers (AEE), has served in leadership roles for theUS Green Building Council, and Virginia Sustainable Building Network (VSBN), and was recently elected to the AEE Energy Managers Hall of Fame.

Additional Learning

- Passive House: Planning, Design and Construction**
- Mon, Feb 7, 2022 | 8:30 am - 4:30 pm CST

- Practical Fluid Mechanics**
- Tues, Feb 8, 2022 | 8:30 am - 3:30 pm CST

- How to Identify Soil Types**
- Tues, Feb 8, 2022 | 10:00 am - 12:00 pm CST

- Estimating the Cost of Sitework**
- Wed, Feb 9, 2022 | 7:30 am - 3:30 pm CST

- Pumping and Piping Systems**
- Thurs, Feb 10, 2022 | 11:00 am - 2:15 pm CST
- Fri, Feb 11, 2022 | 11:00 am - 2:15 pm CST

- Construction Contract Workshop**
- Thurs, Feb 10, 2022 | 9:00 am - 5:00 pm CST

- Project Management for Engineers**
- Fri, Feb 11, 2022 | 8:30 am - 5:00 pm CST

- Foundation Damage and Repair: Science, Materials and Techniques**
- Tues, Feb 15, 2022 | 9:30 am - 5:00 pm CST

- Drones in Construction**
- Wed, Feb 16, 2022 | 8:30 am - 4:30 pm CST

- Fire-Resistant Landscapes and Construction**
- Fri, Feb 18, 2022 | 10:00 am - 5:00 pm CST

- Slope Stabilization and Landslide Prevention**
- Wed, Feb 23, 2022 | 8:30 am - 5:00 pm CST

- Soils in Construction**
- Thurs, Feb 24, 2022 | 12:00 - 4:00 pm CST
- Fri, Feb 25, 2022 | 12:00 - 4:00 pm CST

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