Learning Objectives

You’ll be able to:

**Identify** proper installation methods when using engineered lumber products.

**Get** tips on properly specifying products, including engineered lumber floor systems.

**Learn** how to size I-joists and structural beams.

**Acquire** skills needed to apply various framing details and connections used in engineered lumber products industry.

**Understand** the difference between fire-resistant and fire-rated assemblies.

**Learn** how to size I-joists, structural beams, columns and walls

**Examine** the fire performance of engineered wood products

**Discuss** the installation and inspection of engineered lumber floor systems

**Explore** the applications for engineered wood in multi-family construction

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**Section 1 - Engineered Wood Products: Introduction and 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 manufacturer literature to properly specify engineered lumber floor systems

**Section 2 - Engineered Wood Products: Specification and Inspection (EWP 006/007)**

Utilize both code details and manufacturer 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 learn 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

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 Resistant and Fire Rated Assemblies with Wood (EWP 004)**

Learn the difference between fire-resistant 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; enable a better 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 from most manufacturers when designing multi-family structures

Wrap Up and Review

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**Engineered Lumber Design and Construction**

*Columbia, SC - Tuesday, April 16, 2019*
Dennis Bott  Boise Cascade Engineered Wood Products
Mr. Bott has been working within the engineered wood industry for over 25 years holding many positions from design manager to manufacturing technical sales. He is currently the business development and project manager responsible for educating and driving specification for Boise Cascade Engineered Wood Products within the multi-family light commercial segment. In addition to these responsibilities, he also manages the AIA educational program for Boise Cascade.

Nathan Paul  Boise Cascade Engineered Wood Products
Mr. Paul has more than 20 years’ experience educating and consulting with performance-based designers and specifiers across North America. In his current role with Boise Cascade, he is responsible for the specification of engineered wood products within the multi-family and light commercial markets. Mr. Paul regularly gives presentations as an effective means of educating the design community.

Jeff Ruebusch  Boise Cascade Engineered Wood Products
Mr. Ruebusch has been working within the building products and engineered lumber industry for over 30 years. He has attained a vast amount of experience through positions ranging from engineered wood products designer to manufacturing technical sales. Mr. Ruebusch is currently the senior area manager for the Carolinas.

Seminar Information
Columbia Marriott
1200 Hampton Street
Columbia, SC 29201
(803) 771-7000

Jeff Ruebusch  Boise Cascade Engineered Wood Products
Mr. Ruebusch has been working within the building products and engineered lumber industry for over 30 years. He has attained a vast amount of experience through positions ranging from engineered wood products designer to manufacturing technical sales. Mr. Ruebusch is currently the senior area manager for the Carolinas.

Continuing Education Credit Information
This seminar is open to the public. It offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects in all states. Educators and courses are not subject to preapproval in South Carolina.

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The American Institute of Architects has approved this seminar for 7.0 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES.

This course offers a non-credit continuing education opportunity to contractors. Attendance will be monitored, and attendance certificates will be available after the seminar for those individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

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- National Electrical Code, Part II
  Thurs., March 7, 2019, 11:00 AM - 3:30 PM CDT
- National Electrical Code, Part III
  Fri., March 8, 2019, 11:00 AM - 3:30 PM CDT
Commercial Solar Peaker Batteries
- Commercial Solar Peaker Batteries, Part I
  Wed., March 13, 2019, 11:00 AM - 1:15 PM CDT
- Commercial Solar Peaker Batteries, Part II
  Thurs., March 14, 2019, 11:00 AM - 1:30 PM CDT
Handling Ethical Issues in Professional Engineering Practice
Fri., March 15, 2019, 11:00 AM - 12:00 PM CDT
Structural Forensic Engineering
- Introduction to Forensic Engineering Process
  Wed., March 27, 2019, 11:00 AM - 2:00 PM CDT
- Causes of Failures and the Forensic Engineering Report
  Wed., March 27, 2019, 1:30 - 3:30 PM CDT
- Forensic Examination of Structures and Use in Litigation
  Thurs., March 28, 2019, 11:00 AM - 1:00 PM CDT
Foundation Damage and Repair
- Structure Loads, Soil Mechanics, Bearing Capacity and Geo-Environmental Hazards
  Thurs., March 28, 2019, 11:00 AM - 12:30 PM CDT
- Foundation-Wall Design and Construction
  Thurs., March 28, 2019, 1:00 - 2:30 PM CDT
- Assessment of Foundation-Slab Damage & Repair Alternative
  Fri., March 29, 2019, 11:00 AM - 12:30 PM CDT
- Assessment of Foundation-Retaining Wall Damage & Repair Alternatives
  Fri., March 29, 2019, 1:00 - 2:30 PM CDT

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Registration
Engineered Lumber Design and Construction
Columbia, SC - Tuesday, April 16, 2019

How to Register
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