

HalfMoon Education Live Continuing Education Webinars

# Engineered Lumber Design and Construction

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**Online - Monday, April 24, 2023 | 8:30 am - 3:50 pm CDT**

**Credits:**

Professional Engineers: 6.5 PDHs

Architects: 6.5 HSW CE Hours      AIA: 6.5 LU|HSW

International Code Council: Pending

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### **Introduction to Engineered Lumber Products**

Discussion of wood materials  
Advantages of engineered lumber products vs. wood materials  
Definition of ELP  
Discussion of structural vs. nonstructural  
(NOTE: This presentation is structural only)  
Use in building code and NDS  
Proprietary vs. non-proprietary products – affects sources  
One-way vs two-way products/solid wood vs. veneer

### **Glued Laminated Lumber**

Define material                      How is it manufactured?  
Non-proprietary product/values in NDS  
Applications in buildings      NDS design methods  
Use of specialized forms – curved and PTC  
Adjustments and special considerations

### **Structural Engineered Lumber (LVL/PSL/LSL)**

Define material                      How is it manufactured?  
Proprietary design values by manufacturer  
Applications in buildings      NDS design methods  
Adjustments and special considerations  
Use for flitch beams/built-up sections

### **Pre-fabricated Wood I-joists**

Define material                      How is it manufactured?  
Proprietary design values by manufacturer  
Applications in buildings      NDS design methods  
Adjustments and special considerations

### **Wood Structural Panels**

Define material                      How is it manufactured?  
Non-proprietary product/values in NDS  
Applications in buildings      NDS design methods  
Adjustments and special considerations

### **Connections in Engineered Lumber Products**

Connection theory for wood design  
Changes for wood composites – dowel bearing strength  
Equivalent specific gravity term  
Adjustments and special considerations

### **ELP In Software**

Use of materials in software packages  
REVIT, structural software, etc.

### **Presented by**

#### **Daniel P. Hindman, PE, Ph.D.**

Dr. Hindman serves as associate professor in the Sustainable Biomaterials Department at Virginia Tech, where his research program focuses on the efficient use of low carbon, biological-based materials for construction. His research philosophy revolves around three principles related to wood materials: structure, safety, and sustainability. Dr. Hindman is a member of several professional organizations including the American Society of Civil Engineers, the Forest Products Society, and the National Frame Building Association. He holds a Professional Engineering license in the Commonwealth of Virginia.

### **Tuition**

**\$319** for individual registration  
**\$289** for two or more registrants from the same company at the same time.

**Included with your registration:** PDF seminar manual.

### **Learn More and Register:**

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This webinar is open to the public and offers 6.5 PDHs for professional engineers and 6.5 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved HalfMoon Education as a Preferred Provider of continuing education (No. 1232). Course approval is pending in the specialty area of Building.

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### **On-Demand Credits**

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:

6.5 HSW LUs (AIA)