

# AIA CONTINUING EDUCATION COURSE CATALOG



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## **BASICS OF RESIDENTIAL DESIGN AND CONSTRUCTION**

### **BLS100: Basic Facts of Residential Engineered Lumber**

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** A condensed version of GEN100, this course gives a basic overview of structural engineered wood products and their applications in residential buildings. It points out some unique advantages of engineered lumber products and gives guidelines for proper installation. Participants come away with a strong fundamental understanding of when and how to use engineered lumber.

### **BLS125: Framewalk: Jobsite Walkthrough of Residential Framing**

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** This is a hands-on guided tour of a home under construction intended to give participants an opportunity to investigate a home in the frame stage to learn structural wood framing design & construction practices. You'll follow a "scavenger hunt" agenda that has been uniquely tailored for this home. In the process of solving your scavenger hunt, you'll be tracking loads and learning how various framing solutions meet engineering and code requirements.

### **BLS130: Using Forte® Software to Provide Specifications for EWP**

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*Time: 1 Hour*

*Learning Units: 1.0*

**Course Description** ForteWEB is the next generation single member sizing software available as a web-based application. This seminar is an overview of the functionality of software. We will learn how to properly specify engineered wood products for floor, wall and roof systems utilizing ForteWEB software.

### **BLS150: Load Development Basics (Condensed)**

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** This course introduces the fundamental concepts and basic terminology of load developments. Participants learn how to find necessary information on the plans, size the structural members and specify structural products for optimum cost and value.

## **BLS400: Residential Structural Frame Orientation**

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** Participants "walk through" a residential structural framing design from start to finish starting with beam placement then joist selection and progressing to wall and roof framing. Participants quickly grasp the types of practical design decisions that must be addressed when creating a structural frame.

## **BLS410: Evolution of OSB Subfloor Structural Panels**

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** This course is an introduction into the manufacturing and uses of OSB structural panels. Participants will review the history and manufacturing process of OSB structural panels. In addition, they will learn how to identify and select OSB structural panels for projects.

## **BLS500: Building and Designing in Coastal Areas**

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credits of HSW*

**Course Description** This is a condensed version of GEN500. It reviews IRC and FEMA recommendations and requirements for specifying treated wood products in structures built in coastal areas.

## **BLS510: EWP in Fire and Sound Assemblies in Multifamily Structures**

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** This course reviews IRC and FEMA recommendations and requirements for specifying treated wood products in structures built in coastal areas. We'll look at treatment requirements and compare product options based on these criteria and other design considerations.

## **BLS710: The Advantages of Solid Section Beams and Columns**

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** This course highlights unique design advantages of solid section engineered lumber products versus built-up members. Participants come away with a strong understanding of how and when to use solid section beams and cautions and considerations with built-up members in design and installation for beams & columns.

## **BLS815: Modern Framing Lumber Grading & Specification - SYP**

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*Time: 1 Hours*

*Learning Units: 1.0*

**Course Description** This program provides a chronological overview of standards and methods for grading common structural framing lumber. It addresses SYP design value changes & adaptation and introduces application-specific machine graded lumber materials & methods for more predictable and consistent wood-frame structures.

## **BLS820 Or Equal? The Real Differences between I-joists**

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** This presentation was created to show the specifier the real difference between different I-joists. It's not all about reading span charts. Span charts can be misleading. There are other tables to review for a good analysis. This presentation shows what tables are available to properly analyze and compare I-joists, and what cautions to consider.

## **BLS830 Framing Friendly Lumber for Floor, Wall and Roof/Ceiling Applications**

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** Participants will come away with an understanding of the sustainability practices utilized in modern forestry and the green attributes of advanced structural lumber products. We will learn about the benefits of Framing Friendly Lumber and how to design for a variety of applications. Participants will discover that modern lumber is a sustainable and smart solution for many framing needs.

## **GEN100: Introduction to Engineered Lumber for Residential Construction**

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*Time: 2 Hours*

*Learning Units: 2.0 Including 2 credits of HSW*

**Course Description** This course will help you to understand the basics of product application and installation in residential structures using engineered wood products.

## **GEN150: Load Development Basics**

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*Time: 2 Hours*

*Learning Units: 2.0 Including 2 credits of HSW*

**Course Description** Load development is a discipline by which architects, designers, and engineers analyze the structural integrity of a building with respect to the forces it must safely support. You will see how load development is essential to safe and sound building design.

## GEN500: Building and Designing in Coastal Areas

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*Time: 2 Hours*

*Learning Units: 2.0 Including 2 credits of HSW*

**Course Description** This course reviews IRC and FEMA recommendations and requirements for specifying treated wood products in structures built in coastal areas. We'll look at treatment requirements and compare product options based on these criteria and other design considerations.

## GEN720: Balcony and Deck Design

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*Time: 2 Hours*

*Learning Units: 2.0 Including 2 credits of HSW*

**Course Description** The course explores framing considerations for decks and balconies. Participants will come away with an understanding of requirements for wood, connectors, & fasteners to be properly sized and properly treated to withstand loads & environmental hazards for the design life.

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## FLOORS

### BLS200: Evaluating Floor Performance

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** Design with software to meet customer expectations of floor performance. Participants compare the conventional code (Static) approach to floor design with a dynamic approach based on customer preferences. Traditional methods gage the performance of the floor based on uniform, non-moving loads whereas customers gage floor performance by how it feels when they walk, run or jump.

### BLS540 Open Web Truss & I-Joist Floor System Considerations (Condensed)

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** An abbreviated version of GEN540, participants will come away with a basic understanding of the advantages and drawbacks of custom plated trusses and I-joist floor systems related to structural design, installation, performance and cost.

## BLS600 Integrated Design: 3D Drafting & Fabrication of Wood Floor Framing

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** This course demonstrates how use integrated design technology to prepare and build wood floor framing from the design to installation. Participants learn to use integrated design technology to review mechanical & structural conflicts and identify unique structural detailing prior to fabrication, simplify jobsite review for conformance to plans, and provide documentation for green building certification.

## GEN540: Open Web Truss & I-Joist Floor System Considerations

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*Time: 2 Hours*

*Learning Units: 2.0 Including 2 credits of HSW*

**Course Description** Participants will come away with a basic understanding of the advantages and drawbacks of custom plated trusses and I-joist floor systems related to structural design, installation, performance and costs.

## WALLS

### BLS700: Design & Architectural Considerations for Residential Tall Walls

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*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** Participants learn what code says about designing walls over 10 feet. We will also define the differences between building walls full height (Balloon framing) and stacking walls (Platform Framing) to get a tall wall. We will see how windows and finishes play into the equation, and what types of framing details accomplish the structural and finish needs.

### GEN700: Design & Architectural Considerations for Residential Tall Walls (Expanded)

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*Time: 2 Hours*

*Learning Units: 2.0 Including 2 credits of HSW*

**Course Description** This working seminar covers similar information as BLS700, but with more detail. This is NOT intended to be a static “watch the PowerPoints” session. Participants learn what code says about designing walls taller than 10 feet. We will also define the differences between building walls full height (balloon framing) and stacking walls (Platform Framing) to get a tall wall. We will see how windows and finishes play into the equation, and what types of framing details accomplish the structural and finish needs.

Any course can be offered as a webinar.

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