

# AIA CONTINUING EDUCATION COURSE CATALOG



# TABLE OF CONTENTS

---

<b>BASICS OF RESIDENTIAL DESIGN AND CONSTRUCTION</b> .....	<b>2</b>
BLS100: Basic Facts of Residential Engineered Lumber .....	2
BLS140: ForteWEB™ Software Solution for EWP Specification (Condensed) .....	2
BLS141-144: 4-Part A-Z ForteWEB™ Software .....	2
BLS150: Load Development Basics (Condensed) .....	2
BLS400: Residential Structural Frame Orientation.....	2
BLS410: Evolution of OSB Subfloor Structural Panels .....	3
BLS500: Building and Designing in Coastal Areas.....	3
BLS515: Engineered Wood Products in Mid-Rise Structures .....	3
BLS710: The Advantages of Solid Section Beams and Columns.....	3
BLS720: Balcony and Deck Design.....	3
BLS750: TimberStrand LSL Framing Solutions.....	4
BLS815: Modern Framing Lumber Grading & Specification - SYP .....	4
BLS820: Or Equal? The Real Differences between I-joists .....	4
BLS830: Framer Friendly Lumber for Floor, Wall and Roof/Ceiling Applications .....	4
GEN100: Introduction to Engineered Lumber for Residential Construction .....	4
GEN140: Using ForteWEB Software to Provide Specifications for EWP - Advanced .....	5
GEN150: Load Development Basics .....	5
GEN500: Building and Designing in Coastal Areas .....	5
GEN720: Balcony and Deck Design .....	5
<b>FLOORS</b> .....	<b>5</b>
BLS200: Evaluating Floor Performance .....	5
BLS210: Deflection and Performance Considerations In Residential Wood-Framed Floor Design (Part #1) .....	6
BLS220: Deflection and Performance Considerations In Residential Wood-Framed Floor Design (Part #2) .....	6
BLS540: Open Web Truss & I-Joist Floor System Considerations (Condensed) .....	6
BLS725: Rim Board Design .....	6
GEN540: Open Web Truss & I-Joist Floor System Considerations .....	7
TJNC700: IRC 2024 Guard Requirements at Elevated Walkways: Prescriptive vs. Engineered Framing .....	7
<b>WALLS</b> .....	<b>7</b>
BLS705: Design of Tall Walls.....	7
GEN705: Design of Tall Walls (Expanded) .....	7

# **BASICS OF RESIDENTIAL DESIGN AND CONSTRUCTION**

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

---

*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.

## **BLS140: ForteWEB™ Software Solution for EWP Specification (Condensed)**

---

*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**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.

## **BLS141-144: 4-Part A-Z ForteWEB™ Software**

---

*Time: 1 Hour courses*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** ForteWEB is the next generation single member sizing software. The 4 1-hour courses span topics from Registration & Setup to Joist & Beam Sizing to more advanced topics like Commercial Loading, Deck Beam Sizing, and Multiple Member Connections.

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

---

*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**

---

*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**

---

*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**

---

*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.

## **BLS515: Engineered Wood Products in Mid-Rise Structures**

---

*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** This course addresses mid-rise wood-frame buildings, a cost effective, sustainable solution. We will discuss allowable heights and areas and the fire-resistant requirements for engineered wood products in Type III and Type V structures. Topics include code requirements for rated floor, wall and roof assemblies, testing methods, Flame Spread and Fire-Retardant Treatment (FRT). Sound Transition Class (STC), Impact Insulation Class (IIC) ratings of one and two layer rated floor/ceiling assemblies will be introduced.

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

---

*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.

## **BLS720: Balcony and Deck Design**

---

*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** This course examines framing considerations for exterior decks and balconies, with emphasis on material durability, load transfer, moisture exposure, and code requirements. Participants will gain an understanding of how wood materials, connectors, and fasteners must be properly sized and preservative-treated, as required, to resist structural loads and environmental hazards over the design life.

## **BLS750: TimberStrand LSL Framing Solutions**

---

*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** Today we're going to talk about TimberStrand® LSL—engineered lumber framing solutions designed to solve the everyday challenges builders face with conventional lumber. From floor joists and stair stringers to tall walls and roof rafters, TimberStrand LSL delivers consistency, stability, and performance across the entire house. This isn't just about specs—it's about reducing risk, saving labor, and giving homeowners a better finished product. For dealers, it's a premium story that builds loyalty and drives growth.

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

---

*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**

---

*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: Framer Friendly Lumber for Floor, Wall and Roof/Ceiling Applications**

---

*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 Framer 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**

---

*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.

## **GEN140: Using ForteWEB Software to Provide Specifications for EWP - Advanced**

---

*Time: 2 Hours*

*Learning Units: 2.0 Including 2 credits of HSW*

**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 the software. We will learn how to properly specify engineered wood products for floor, wall and roof systems utilizing ForteWEB software.

## **GEN150: Load Development Basics**

---

*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**

---

*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**

---

*Time: 2 Hours*

*Learning Units: 2.0 Including 2 credits of HSW*

**Course Description** This seminar covers similar information as BLS720, but with more detail. 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.

## **FLOORS**

### **BLS200: Evaluating Floor Performance**

---

*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 gauge the performance of the floor based on uniform, non-moving loads whereas customers gauge floor performance by how it feels when they walk, run or jump.

## **BLS210: Deflection and Performance Considerations In Residential Wood-Framed Floor Design (Part #1)**

---

*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** In this course, we will discuss how a floor's overall performance is more than just looking at how much the joist deflects. We will look at how different floor coverings demand different deflection requirements as well as differential deflection between joists.

## **BLS220: Deflection and Performance Considerations In Residential Wood-Framed Floor Design (Part #2)**

---

*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** If you've struggled with picking the right floor system for a discriminating buyer, this course is for you. Recognize that typical span charts and conventional static deflection criteria don't always prevent performance issues. We will discuss common floor system issues. We will also explore field problems and possible solutions.

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

---

*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.

## **BLS725: Rim Board Design**

---

*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** BLS 725 focuses on the critical role rim board has in wood-framed structures. Rim board is an essential component for platform framed construction. It plays a key role in maintaining load path continuity, transferring vertical and lateral loads from the upper parts of the structure down to the foundation. In addition, rim board can function as a beam that spans over openings and as a secure attachment point for the deck ledger board. Commonly manufactured from engineered wood products like LSL, OSB, and LVL, rim boards offer high compressive strength and dimensional stability. Proper installation, such as matching rim board depth to joist depth and using recommended nailing patterns, is essential to ensure performance and safety.

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

---

*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.

## TJNC700: IRC 2024 Guard Requirements at Elevated Walkways: Prescriptive vs. Engineered Framing

---

*Time: .5 Hours*

*Learning Units: .5 Including .5 credits of HSW*

**Course Description** The 2024 IRC introduces a major structural clarification for guard systems by explicitly linking guard performance to edge framing design. New Section R502.11 establishes prescriptive requirements for floor edge framing supporting guards while reinforcing the need for engineered design when prescriptive limits are exceeded. This course equips specifiers and designers with a practical understanding of what changed, why it changed, and how to properly navigate a prescriptive solution for floor systems of sawn lumber and engineered wood products.

## WALLS

### BLS705: Design of Tall Walls

---

*Time: 1 Hour*

*Learning Units: 1.0 Including 1 credit of HSW*

**Course Description** We will discover the basic engineering principles for analysis and design of wood tall walls. We will learn about IRC prescriptive tall walls and discuss balloon framed walls. We will learn how to size columns, studs and headers using literature and finally how software makes it easy to design the tall wall components.

### GEN705: Design of Tall Walls (Expanded)

---

*Time: 2 Hours*

*Learning Units: 2.0 Including 2 credits of HSW*

**Course Description** This seminar covers similar information as BLS705, but with more detail. We will discover the basic engineering principles for analysis and design of wood tall walls. We will learn about IRC prescriptive tall walls and discuss balloon framed walls. We will learn how to size columns, studs and headers using literature and finally how software makes it easy to design the tall wall components.

Any course can be offered as a webinar.

To schedule a seminar please contact your  
local [Weyerhaeuser Representative](#)  
or contact the  
Technical Support team at  
888-453-8358 or [techsupport@weyerhaeuser.com](mailto:techsupport@weyerhaeuser.com).

We encourage your feedback regarding these classes.  
Let us know how we're doing at [www.wy.com/AIA](http://www.wy.com/AIA).