

AIA CONTINUING EDUCATION COURSE CATALOG



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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.

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.

BLS920 Advanced Residential Framing & Energy Code

Time: 1 Hour

Learning Units: 1.0 Including 1 credit of HSW

Course Description This course will explain the effects of advanced residential framing in accordance with the Energy Code, with respect to thermal efficiency and infiltration reduction, to obtain Green Building Certification.

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 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

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.

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.

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

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

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

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)

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 PowerPoint” 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.

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