

Agenda

Presented by Jeffery Hershberger

Working with Timber and the History of Timber Framing

Development of timber frame buildings and techniques
Typical wood species and their comparable design characteristics
Harvesting and processing timber
Timber design problems and solutions: shrinking, twisting, warping and bowing

Structural Frame Design

Codes and standards for timber framing
Structural members and framework
Regional affected design concerns and code requirements
Difference between bent, wall and truss framing
Primary and secondary frame members

Roof Framing and Truss Design

Common rafter vs truss design
Truss mechanics and anatomy
Typical heavy timber truss designs and characteristics

Joinery Design

Mortise and tenon joints
Principal member joinery examples
Bay member joinery examples
Tension joinery
Pegged joints vs mechanically aided joinery
Knee bracing

Putting it All Together

Foundations for timber framed buildings
Raising procedures and concerns
Enclosures and lateral resistance systems
Open timber frames and pavilions

Can't Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$279. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Timber Frame Design and Construction

Lombard, IL - Thursday, April 30, 2020



HalfMoon Education Inc.
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Learning Objectives

You'll be able to:

Identify codes and standards for timber framing, and discuss regional design concerns..

Examine wood species that are typically used in timber framing and describe their characteristics.

Distinguish between bent, wall and truss framing.

Differentiate between common rafter and truss design.

Describe joinery designs, including mortise and tenon joints, and discuss principal member joinery and tension joinery.

Get tips on foundation design, and learn the process for raising timber frame buildings.



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Learn about working with timber and explore the history of timber framing

Review codes and standards

Examine structural frame designs

Understand roof framing and truss design

Explore various joinery designs

Discuss foundations for timber-framed buildings

Get tips on raising timber frame buildings

Continuing Education Credits

Professional Engineers

6.5 PDHs

International Code Council

.65 CEUs (Building)

Structural Engineers

6.5 Continuing Ed. Credit Hours

Contractors

Non-Credit Continuing Ed.

Architects

6.5 HSW Contact Hours

6.5 AIA LU|HSW



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Faculty

Jeffery Hershberger, E.I. *Tamarack Grove Engineering*

Mr. Hershberger began his construction and engineering career when he found a job as a timber frame carpenter after returning to the east coast, broke and jobless, from a winter chasing snow in Jackson Hole, Wyoming. This job of convenience led to over a decade of making sawdust, first as joiner, then as itinerate timber framer and small business owner. This career path ignited a passion for the woodworking, and the pursuit, of the historic craft of timber framing, which he was originally introduced to as a child climbing around the bank barn of his home in Bucks County, Pennsylvania. A recession and a baby boy led to the decision to return to school to study civil engineering, broadening his understanding of structural analysis and material science.

Upon graduating Mr. Hershberger headed back to the building industry, first as a subcontracted drafter and engineering intern, then eventually joining Tamarack Grove Engineering as a structural engineering project manager. He currently manages a team of engineers that work primarily within the heavy timber and log construction industry. Mr. Hershberger relies heavily on his practical experience as a builder and small business owner when working with clients to produce structurally efficient and elegant designs.

Seminar Information

Hyatt Place Chicago - Lombard/Oak Brook	Registration	Lunch (On your own)
2340 South Fountain Square Drive	8:00 - 8:30 am	11:45 am - 12:45 pm
Lombard, IL 60148	Morning Session	Afternoon Session
(630) 932-6501	8:30 - 11:45 am	12:45 - 4:30 pm

Tuition

\$299 for individual registration

\$279 for three or more simultaneous registrations.

Included with your registration:

Complimentary continental breakfast and printed seminar manual.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Additional Learning

Webinar Series

Foundation Damage and Repair

- **Design & Geo-Environmental Loading, Building Codes, Soil Properties**
Wed., March 4, 2020, 11:00 AM - 12:30 PM CST
- **Foundation-Slab-Wall Design and Construction**
Wed., March 4, 2020, 1:00 - 2:30 PM CST
- **Evaluation of Foundation-Slab Damage and Repair Alternatives**
Thurs., March 5, 2020, 11:00 AM - 12:30 PM CST
- **Evaluation of Foundation Wall Damage and Repair Alternatives**
Thurs., March 5, 2020, 1:00 - 2:30 PM CST

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development, Part I**
Wed., March 4, 2020, 11:00 AM - 2:15 PM CST
- **Solar Photovoltaic Project Design and Development, Part II**
Thurs., March 5, 2020, 11:00 AM - 2:15 PM CST

International Residential Code

- **Development and Enforcement of International Residential Code**
Thurs., March 12, 2020, 11:00 AM - 12:00 PM CDT
- **IRC Building Planning and Shell Construction, Part I**
Thurs., March 12, 2020, 1:00 - 2:30 PM CDT
- **IRC Building Planning and Shell Construction, Part II**
Fri., March 13, 2020, 11:00 AM - 12:30 PM CDT
- **IRC Energy Efficiency and Building Systems**
Fri., March 13, 2020, 1:00 - 3:00 PM CDT

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers, 6.5 continuing education credit hours to structural engineers, and 6.5 HSW continuing education hours to architects in all states. Educators and courses are not subject to preapproval in Illinois.

The American Institute of Architects has approved this event for 6.5 HSW Learning Units (Sponsor No. J885). Visit www.halfmoonseminars.org for complete AIA/CES course information under this seminar listing. Only full attendance can be reported to the AIA.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved engineer and architect continuing education sponsor in New York.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building.

This seminar also offers a non-credit continuing education opportunity to construction contractors. It has not been submitted to any state contractor licensing board for continuing education approval.

Attendance will be monitored, and attendance certificates will be available after the seminar for most 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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Registration

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Complete the entire form. Attach duplicates if necessary.	
Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.	

Tuition

- () **I will be attending the live seminar.** Single Registrant - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$279.00** each.
- () **I am not attending.** Please send me the self-study package:
- ☐ Downloadable MP3 Audio/PDF Manual for **\$279.00**.
- ☐ CD/Manual Package for **\$299.00**. ☐ USB/Manual Package **\$299.00**. (S&H included. Please allow five weeks from seminar date for delivery)

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