

Credit Information

Timber Frame Design and Construction

This webinar offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects licensed in all states.

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

The International Code Council has approved this event for .65 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Construction Cost Estimating

This webinar offers 6.5 PDHs to professional engineers in all states except New York, and 6.5 non-HSW continuing education hours to architects licensed in states that accept non-HSW coursework, except New York.

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).

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU | Elective (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Administration (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of each webinar are available for purchase. See course listing online 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.

Live, Interactive Webinars

- Timber Frame Design and Construction
- Construction Cost Estimating

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Live, Interactive Webinars

Timber Frame Design and Construction

- Wednesday, January 19, 2022 | 9:00 am - 4:30 pm CST

Construction Cost Estimating

- Thursday, January 20, 2022 | 8:30 am 4:30 pm CST

To register, view detailed presenter biographies,
and see other learning opportunities, please visit:

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HalfMoon Education Live Webinars



Timber Frame Design and Construction

Wednesday, January 19, 2022 | 9:00 am - 4:30 pm CST

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
AIA: 6.5 LU | HSW International Code Council: .65 CEUs (Building)



Construction Cost Estimating

Thursday, January 20, 2022 | 8:30 am 4:30 pm CST

Credits: Professional Engineers: 6.5 PDHs*
Architects: 6.5 Non-HSW CE Hours* AIA: 6.5 LU | Elective
International Code Council: .65 CEUs (Administration)

*Not approved for Engineers or Architects in New York

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AIA
Continuing
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Provider



Timber Frame Design and Construction

Wednesday, January 19, 2022 | 9:00 am - 4:30 pm CST (incl. a 30-min break)

Tuition: \$289 per registrant, \$239 per registrant for three or more

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
AIA: 6.5 LU|HSW International Code Council: .65 CEUs (Building)

Agenda

Working with Timber

- 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
- Gravity and lateral load resistance
- Difference between bent, wall and truss framing
- Common rafter vs truss design
- Primary and secondary frame members

Roof Framing and Truss Design

- Truss mechanics and anatomy
- Real vs Idealized truss configurations
- 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
- Straps, screws, and rods
- Gusset and knife plates
- Knee bracing

Putting it All Together

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

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Agenda

Producing Different Types of Cost Estimates

- Purposes of and methodologies for cost estimates
 - Design-build estimate
 - Design-bid-build estimate
 - Control estimate
 - Conceptual estimate

Construction Estimating Resources and Processes

- Estimating team Estimating process
- Data resources CSI Masterformat

Estimating Labor, Equipment, Overhead and Profit

- Estimating labor costs
- Estimating for construction equipment costs
- Estimating overhead costs
- Estimating profit

Estimating Construction Materials and Services

- Earthwork and excavation Pavements
- Concrete structures Wood structures
- Steel structures Masonry
- Floors Roofing
- Interiors Finishes

Estimating Mechanical, Electrical and Plumbing

- Plumbing Electrical systems
- Mechanical systems

Using Construction Estimating Software

- Review of industry-standard software

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Faculty

Timber Frame Design and Construction

Jeffrey R. Hershberger *Founder/Managing Owner of Slick Timberworks*

Mr. Hershberger began his construction and engineering career when he found a job as a timberframe carpenter after returning east broke and jobless from a winter chasing snow in Jackson Hole. This job of convenience led to over a decade of making sawdust, first as joiner than as itinerate timberframer and small business owner. This career path ignited a passion for woodworking and the pursuit of the historic craft. It was initially fostered by climbing around the bank barn of his childhood 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 structural engineering project manager. After a handful of years of consulting engineering work for log and timber manufacturers throughout North America the draw to return back to the shop floor became too much to ignore, and lead to the creation of Slick Timberworks in the summer of 2020, an effort to bring a bit more flexibility between structural engineering consulting and timber fabrication. Mr. Hershberger relies heavily on his practical experience while working with clients to produce structurally efficient and elegant designs, and while remaining focused on the initial priorities of the project. He has earned a B.S. degree in Geology from Bates College and a B.S. degree in Civil Engineering from the University of North Dakota.

Construction Cost Estimating

Steve Watkins *Senior Preconstruction Manager for BNBuilders in Seattle, WA*

Mr. Watkins has been in the construction industry for approximately 30 years. He started in the single-family residential market sector, which led him into land development and then onto commercial estimating. Mr. Watkins has spent the past 15 years in preconstruction and commercial estimating. He has been a chief estimator and director of preconstruction leading estimating teams and departments. Currently Mr. Watkins is a senior preconstruction manager for BNBuilders in Seattle. He has been fortunate enough to have worked on all procurement types from the typical “hard bid,” Design-build, progressive design-build, GC/CM, and private negotiated GMP for vertical construction projects. Mr. Watkins is the ASPE Northwest Regional Governor and an ASPE CPE.

Additional Learning

International Existing Building Code 2021

- Tues, Dec 14, 2021 | 8:30 am - 5:00 pm CST

Stormwater Basins and Underground Systems

- Tues, Dec 14, 2021 | 9:00 am - 4:30 pm CST

Practical Site Engineering: Science & Techniques

- Wed, Dec 15, 2021 | 11:00 am - 3:15 pm CST
- Fri, Dec 17, 2021 | 11:00 am - 2:15 pm CST

Soil Mechanics, Bearing Capacity and Slope Stabilization

- Fri, Dec 17, 2021 | 8:30 am - 4:30 pm CST

International Building Code 2021

- Fri, Dec 17, 2021 | 8:30 am - 5:00 pm CST

National Electrical Code 2020

- Tues, Dec 28, 2021 | 8:30 am - 5:00 pm CST

Managing Construction Projects

- Wed, Dec 29, 2021 | 8:30 am - 4:30 pm CST

Parking Structure Design, Construction, and Maintenance

- Wed, Dec 29, 2021 | 8:00 am - 3:30 pm CST

Residential and Small Commercial Solar Photovoltaic Energy Systems

- Thurs, Dec 30, 2021 | 8:30 am - 4:00 pm CST

Structural Forensic Engineering

- Wed, Dec 29, 2021 | 10:00 am - 1:45 pm CST
- Thurs, Dec 30, 2021 | 10:00 am - 1:45 pm CST

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