

Credit and Webinar 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 all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

International Residential Code 2021

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The International Code Council has approved HalfMoon Education as a Preferred Provider of continuing education (Preferred Provider No. 1232). Course approval is pending in the specialty area of Building. Visit www.halfmoonseminars.org for credit updates under this course listing.

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Live, Interactive Webinars

- Timber Frame Design and Construction
- International Residential Code 2021

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Live, Interactive Webinars

Timber Frame Design and Construction

- Tuesday, June 15, 2021 | 8:30 am - 4:30 pm CDT

International Residential Code 2021

- Wednesday, June 16, 2021 | 8:30 am - 4:30 pm CDT

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

www.halfmoonseminars.org

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HalfMoon Education Online Learning Live, Interactive Webinars



Timber Frame Design and Construction

Tuesday, June 15, 2021 | 8:30 am - 4:30 pm CDT

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AIA: 6.5 LU | HSW International Code Council: .65 CEUs (Building)

International Residential Code 2021

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AIA
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Timber Frame Design and Construction

Tuesday, June 15, 2021 | 8:30 am - 4:30 pm CDT (incl. a 60-min break)

Tuition: \$289 per registrant, \$199 per registrant for three or more

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
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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 effected 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

Development and Enforcement of International Residential Code

- Recent history of codes
- Code development process

Part I – Administrative

- Information required on construction documents

Part II - Definitions

Part III - Building Planning and Construction

- Building planning
- Shell construction

Part IV - Energy Conservation

- Building thermal envelope
- Existing buildings, additions, alterations, repairs and change of occupancy

Part V – Mechanical

- Heating and cooling equipment and appliances
- Solar thermal energy systems

Part VI – Fuel Gas

Part VII – Plumbing

- Fixtures
- Water supply and distribution
- Sanitary and storm drainage

Part VIII - Electrical

- Services
- Devices and luminaires
- Appliances
- Swimming pools

Part XI - Appendices

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

Recordings of these webinars are available for purchase. Visit these course listings on our website 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. Self-study packages do not offer AIA credit.

Faculty

Timber Frame Design and Construction

Jeffrey R. Hershberger, E.I. *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. Mr. Hershberger's initial interest in timber was fostered by climbing around the bank barn of his childhood home in Bucks County, PA. 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 he 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 manufactures throughout North America, the draw to return back to the shop floor became too much to ignore. Mr. Hershberger creted Slick Timberworks in the summer of 2020 - an effort to create 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, 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.

International Residential Code 2021

Jerry R. Tepe, FAIA *Owner at JRT-AIA Architect, in Concord, New Hampshire*

Mr. Tepe is a licensed architect. In practice for more than 45 years, he has been both a member and an officer of large E/A firms and a sole practitioner. His project experience ranges from single-family dwellings to large, multi-million dollar commercial and industrial facilities. As a sole proprietor, his firm specializes in building, fire and accessibility code (ADA) consulting to architects, contractors, insurance and legal professionals and private entities, including third-party plan reviews and accessibility inspections.

Mr. Tepe has been active in the code development process through the AIA since joining the AIA Codes and Standards Committee in 1987. With the creation of the International Code Council (ICC), he participated in the initial development of the International Building Code on the General/Occupancies subcommittee and was the chair of that group for two terms. Mr. Tepe was a member of the International Fire Code Development Committee for two terms and also the IBC Fire Safety and Egress Code Development Committees. Additionally he served a term on the ICC Code Correlation Committee. He has made numerous presentations to conference audiences on topics related to building code enforcement and interpretation issues.

Mr. Tepe has held all offices at both the state level (AIA NH) and the regional level (AIA New England). He was active in the legislative process in New Hampshire to adopt the first statewide set of building codes. He has taught numerous code and accessibility related issues in New Hampshire, New England and at BOCA, ICC, BSA and AIA conferences. He is a past chair of the Building Code Board of Appeals in Concord, New Hampshire. He has also served on several other code and building related state and local committees and groups and is a past chair of the AIA Center for Building Science and Performance Knowledge Community.