Credit Information

Basics of Structural Steel Design

This webinar offers 6.0 PDHs to professional engineers and 6.0 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 6.0 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .6 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 Existing Building Code 2021

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

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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).

Can't Attend? Order the Webinar as a Self-Study Package!
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Live, Interactive Webinars
- Basics of Structural Steel Design
- International Existing Building Code 2021

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Live, Interactive Webinars

Basics of Structural Steel Design
- Thursday, August 5, 2021 | 8:30 am - 3:45 pm CDT

International Existing Building Code 2021
- Thursday, August 5, 2021 | 9:00 am - 4:30 pm CDT

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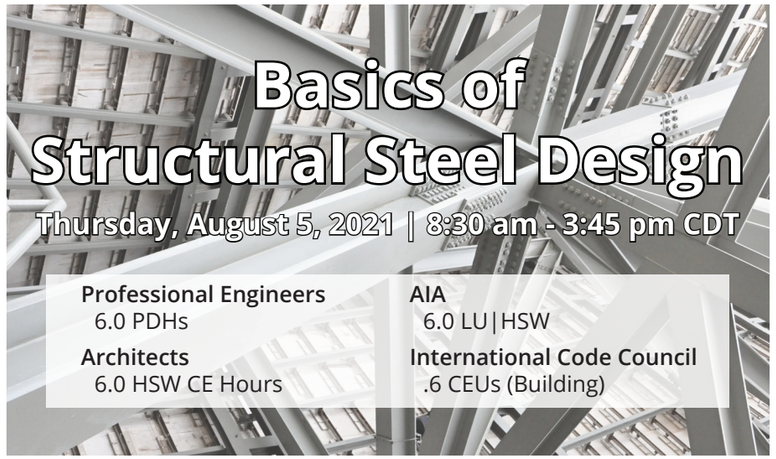

AIA Continuing Education Provider

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Basics of Structural Steel Design

Thursday, August 5, 2021 | 8:30 am - 3:45 pm CDT (incl. a 45-min break)

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

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 HSW CE Hours
AIA: 6.0 LU|HSW International Code Council: .6 CEUs (Building)

Agenda

Preliminary Concepts of Structural Steel Design
- Design theory
- Design objectives
- ASD vs. LRFD
- Loads and load combinations

Structural Steel Flexural and Compression Members
- Flexural members
  - Forces on members
  - Flexural member design
- Compression members
  - Forces on members
  - Compression member design

Structural Steel Tension Members and Connection Design
- Tension members
  - Forces on members and connections
  - Tension member design
  - Tensile effects and failures
  - Load transfer and connection design
- Bolted connections
  - Bolt design, size, spacing, and failures
- Welded connections
  - Weld design and weld failures

Combined Forces, Combined Loads and Structural Steel Applications
- Combined forces, combined loads
- Structural steel applications and case studies
- Commercial and industrial buildings
- Residences
- Parking structures
- Bridges

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International Existing Building Code 2021

Thursday, August 5, 2021 | 9:00 am - 4:30 pm CDT (incl. a 30-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
AIA: 6.5 LU|HSW International Code Council: .65 CEUs (Building)

Agenda

A Brief History of Modern Code Development
- Code development process
- Effective use of the codes

Working with the International Existing Building Code
- Existing building stock: challenges and opportunities
- Development of the IEBC
- Chapter 1: Scope and Administration
- Chapter 2: Definitions

Chapter 3: Provisions for All Compliance Methods
- Option 1: Prescriptive
- Option 2: Work area
- Repairs, alterations, additions and changes of occupancy
- Option 3: Performance
- Structural design loads, evaluation and design procedures
- Accessibility for existing buildings

Chapter 4: Repairs

Chapter 5: Prescriptive Compliance Method
- Additions, alterations and change of occupancy
- Historic buildings

Chapter 6: Classification of Work

Chapters 7-9: Alterations
- Alteration Level–1
- Alteration Level–2
- Alteration Level–3

Chapter 10: Change of Occupancy
- Building elements
- Fire protection
- Means of egress
- Change of occupancy classification
- Structural, electrical, mechanical and plumbing

Chapter 11: Additions
- Heights and areas
- Structural requirements
- Alarms

Chapter 12: Historic Buildings
- Repairs
- Life safety
- Change of occupancy
- Structural

Chapter 13: Performance Compliance Method

Chapter 14: Relocated or Moved Buildings

Appendices A, B & C and Resource A

21 USIEBCOD 8 5 WEBR AM

Faculty

Basics of Structural Steel Design

Robert P. Schaffer, P.E. *WZG Structural Engineers, Zieglerville, PA*

Mr. Schaffer is the associate principal at WZG Structural Engineers and has 19 years of experience in structural analysis and design throughout the Mid-Atlantic region. He is a graduate of Penn State University's Architectural Engineering program with an emphasis in Structural Engineering. Mr. Schaffer has project experience in commercial, higher education, industrial, pharmaceutical, hospital/life care and multi-family residential markets. In 2012, he was selected by *Consulting Specifying Engineer* magazine as a Top 40 Under 40 for his achievements in structural engineering.

International Existing Building Code 2021

Jerry R. Tepe, FAIA *JRT-AIA Architect*

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, institutional 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 American Institute of Architects (AIA) since joining the 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 Code Development Committee 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 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 code enforcement and interpretation issue.

Additional Learning

Shallow Foundation Design, Construction and Repair
- Tues, July 6, 2021|8:30 am - 5:00 pm CDT

Estimating Plumbing and HVAC Costs
- Fri, July 9, 2021|8:30 am - 4:30 pm CDT

Retaining Wall Design and Slope Stabilization Techniques
- Tues, July 13, 2021|11:00 am - 2:15 pm CDT
- Wed, July 14, 2021|11:00 am - 2:15 pm CDT

Universal Residential Design
- Thurs, July 15, 2021|8:30 am - 4:30 pm CDT

Engineered Lumber Design and Construction
- Fri, July 16, 2021|9:00 am - 4:00 pm CDT

2021 International Residential Code: Residential Electrical Systems
- Fri, July 16, 2021, 11:00 am - 3:30 pm CDT

For more information and other online learning opportunities visit:
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Managing Construction with AIA Document A201: General Conditions
- Tues, July 20, 2021|8:30 am - 4:00 pm CDT

High-Performance Building Envelopes
- Wed, July 21, 2021|11:00 am - 2:45 pm CDT
- Thurs, July 22, 2021|11:00 am - 2:45 pm CDT

Technical Writing Workshop for Design Professionals
- Fri, July 23, 2021|8:30 am - 5:00 pm CDT

Understanding and Working with Urban Soils
- Fri, July 23, 2021|8:30 - 10:30 am CDT

Structural Forensic Engineering
- Tues, July 27, 2021|11:00 am - 2:30 pm CDT
- Wed, July 28, 2021|11:00 am - 2:30 pm CDT

Project Management for Engineers
- Wed, July 28, 2021|8:30 am - 4:30 pm CDT