

Agenda

Presented by Robert P. Schaffer

Preliminary Concepts of Structural Steel Design

- Design theory and design objectives
- ASD vs. LRFD
- Loads and load combinations

Flexural Members

- Forces on members
- Flexural member design

Compression Members

- Forces on members
- Compression member design

Tension Members

- Forces on members and connections
- Tension member design
- Tensile effects and failures

Combined Forces and Combined Loads

Connection Design

- Load transfer and connection design
- Bolted connections
- Bolt design, size, spacing, and failures
- Welded connections
- Weld design and weld failures

Structural Steel Applications and Case Studies

- Commercial and industrial buildings
- Residential buildings
- Parking structures
- Bridges

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Pennsylvania - Basics of Structural Steel Design

Live, Interactive Webinar - Tuesday, March 8, 2022

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Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Describe structural steel design theory and design objectives.

Identify structural loads and load combinations.

Explore design of flexural, compression and tension members.

Discuss load transfer and connection design.

Examine welded and bolted connection designs.

Identify applications for structural steel, including commercial and industrial buildings, parking structures and bridges.

Review structural steel case studies.



HalfMoon Education Live Webinars

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Examine design theory and compare ASD vs. LRFD methods of steel design

Learn about flexural, compression and tension member design

Explore combined forces and combined loads

Discuss the design of welded and bolted connections

Review structural steel applications and case studies

Continuing Education Credits

Professional Engineers

7.0 PDHs

International Code Council

.7 CEUs (Building)

Architects

7.0 HSW CE Hours

7.0 AIA LU | HSW

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Faculty



Robert P. Schaffer, P.E. WZG Structural Engineers, Limerick, PA
Mr. Schaffer is the associate principal at WZG Structural Consulting Engineers and has 20 years of experience in structural analysis and design throughout the Mid-Atlantic region. He is a graduate of Penn State University Architectural Engineering program with an emphasis in Structural Engineering and 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.

Webinar Information

Log into Webinar 8:00 - 8:30 am EST	Break 11:55 am - 12:25 pm EST
Morning Session 8:30 - 11:55 am EST	Afternoon Session 12:25 - 4:20 pm EST

Tuition
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Additional Learning

- Construction Cost Estimating**
- Thurs, Jan 20, 2022 | 8:30 am - 4:30 pm CST
- IRC Significant Changes - Chapters 11-44**
- Thurs, Jan 20, 2022 | 11:00 am - 3:30 pm CST
- Erosion and Sediment Control**
- Tues, Jan 25, 2022 | 8:30 am - 5:00 pm CST
- Air-Source Heat Pumps, Mini-Splits, and Heat Pump Water Heaters**
- Wed, Jan 26, 2022 | 12:00 - 3:30 pm CST
- Thurs, Jan 27, 2022 | 12:00 - 3:30 pm CST
- Stormwater Best Management Practices**
- Thurs, Jan 27, 2022 | 8:30 am - 5:00 pm CST
- Cogeneration System Principles and Practices**
- Mon, Jan 31, 2022 | 8:30 am - 4:30 pm CST
- Introduction to HEC-HMS Modeling**
- Mon, Jan 31, 2022 | 8:30 am - 5:00 pm CST
- 2021 International Property Maintenance Code**
- Wed, Feb 2, 2022 | 9:00 am - 4:00 pm CST
- Passive House: Planning, Design and Construction**
- Mon, Feb 7, 2022 | 8:30 am - 4:30 pm CST
- Practical Fluid Mechanics**
- Tues, Feb 8, 2022 | 8:30 am - 3:30 pm CST
- Estimating the Cost of Sitework**
- Wed, Feb 9, 2022 | 7:30 am - 3:30 pm CST
- Pumping and Piping Systems**
- Thurs, Feb 10, 2022 | 11:00 am - 2:15 pm CST
- Fri, Feb 11, 2022 | 11:00 am - 2:15 pm CST
- Construction Contract Workshop**
- Thurs, Feb 10, 2022 | 9:00 am - 5:00 pm CST
- Project Management for Engineers**
- Fri, Feb 11, 2022 | 8:30 am - 5:00 pm CST
- For more information and other online learning opportunities visit:
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This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in Pennsylvania. Educators and courses are not subject to preapproval in Pennsylvania.

Engineers and architects seeking continuing education credit in other states will be able to claim the hours earned at this webinar, in most cases. Refer to specific state rules to determine eligibility.

The American Institute of Architects Continuing Education System has approved this course for 7.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 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).

Registration

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