

Agenda

Presented by Robert P. Schaffer, P.E.

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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Basics of Structural Steel Design

Live, Interactive Webinar - Friday, June 4, 2021

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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 Online Learning

Basics of Structural Steel Design

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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

Continuing Education Credits

Professional Engineers
6.0 PDHs

Architects
6.0 HSW CE Hours

Discuss the design of welded and bolted connections

Review structural steel applications and case studies

AIA
6.0 LU | HSW

International Code Council
.6 CEUs (Building)

AIA
Continuing
Education
Provider



Faculty

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 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 CDT	Break 11:45 am - 12:30 pm CDT
Morning Session 8:30 - 11:45 am CDT	Afternoon Session 12:30 - 3:45 pm CDT

Tuition

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Additional Learning

Structural Forensic Engineering

- Tues, April 27, 2021 | 7:30 am - 4:00 pm CDT

Construction Cost Estimating

- Wed, April 28, 2021 | 8:30 am - 4:30 pm CDT

Developing Infrastructure for Electric Vehicles

- Thurs, April 29, 2021 | 9:30 am - 4:30 pm CDT

Foundation Damage and Repair: Science, Materials and Techniques

- Thurs, April 29, 2021 | 9:30 am - 5:00 pm CDT

Structural Dynamics for Seismic Design

- Fri, April 30, 2021 | 8:30 am - 3:30 pm CDT

Handling Ethical Issues in Government Projects

- Fri, April 30, 2021 | 12:00 - 1:00 pm CDT

Handling Ethical Issues in Engineering Practice

- Tues, May 11, 2021 | 1:00 - 2:00 pm CDT

Special Inspections

under the IBC Chapter 17

- Thurs, May 13, 2021 | 11:00 am - 2:15 pm CDT

- Fri, May 14, 2021 | 11:00 am - 3:15 pm CDT

Water Conservation and Reuse for Building Professionals

- Thurs, May 13, 2021 | 11:00 am - 3:00 pm CDT

- Fri, May 14, 2021 | 11:00 am - 3:00 pm CDT

Design Principles of the 2018 International Building Code

- Wed, May 19, 2021 | 8:00 am - 3:20 pm CDT

Septic System Design, Construction and Maintenance

- Thurs, May 20, 2021 | 9:30 am - 4:30 pm CDT

Handling Ethical Issues Associated with Defects and Failures

- Fri, May 21, 2021 | 11:00 am - 12:00 pm CDT

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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).

Registration

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