

Agenda

Presented by Robert P. Schaffer

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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Structural Steel Design Concepts

Live, Interactive Webinar - Thursday, October 15, 2020

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Learning Objectives

You'll be able to:

Discuss structural steel design theory, design objectives, loads and load combinations, and ASD versus LRFD loads.

Identify and describe forces that act on structural steel flexural and compression members, and get design tips.

Explore tension members and connections, and get tips on load transfer and connection design.

Learn to use bolted and welded connections, and learn about possible connection failures.

Discuss structural steel applications, including commercial and industrial buildings, residences, parking structures and bridges.



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Discuss design theory and objectives

Examine flexural and compression members

Analyze tension members and connection design and discuss load transfer

Explore weld design and analyze weld failures

Learn about combined forces, combined loads and structural steel applications

Continuing Education Credits

Professional Engineers

5.0 PDHs

AIA

5.0 LU|HSW

Architects

5.0 HSW CE Hours

International Code Council

.5 CEUs (Building)



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Faculty

 **Robert P. Schaffer** *P.E. WZG Structural Engineers, Limerick, PA*
Mr. Schaffer is the associate p rincipal at WZG Structural Engineers and has 18 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 8:30 - 9:00 am EDT	Break 11:30 am - 12:00 pm EDT
Morning Session 9:00 - 11:30 am EDT	Afternoon Session 12:00 - 2:30 pm EDT

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Additional Learning

Project Management Fundamentals for Engineers
- Tues., Sept. 29, 2020 | 8:30 am - 4:00 pm CDT

Passive House: Planning, Design and Construction
- Tues., Sept. 29, 2020 | 9:30 am - 5:00 pm CDT

Structural Forensic Engineering
- Tues., Sept. 29, 2020 | 8:30 am - 4:30 pm CDT

Log Home Design: The Original Mass Timber
- Mon., October 5, 2020 | 10:00 am - 2:30 pm CDT

Maintaining Existing Buildings under the 2018 International Fire Code
- Mon., October 5, 2020 | 10:00 am - 2:30 pm CDT
- Mon., October 12, 2020 | 10:00 am - 2:30 pm CDT

Designing for Accessibility under ADA Standards and IBC
- Tuesday, October 6, 2020 | 8:30 am - 12:15 pm CDT
- Wed., October 7, 2020 | 8:30 am - 12:15 pm CDT

2018 International Residential Code: Residential Means of Egress
- Fri., October 9, 2020 | 11:00 am - 3:30 pm CDT

Current Issues in Data Security & Cybersecurity
- Mon., October 12, 2020 | 7:30 am - 3:00 pm CDT

Soil Mechanics, Slope Stabilization, Failures & Repairs
- Tues., October 13, 2020 | 8:30 am - 5:00 pm CDT

Construction Cost Estimating and Value Engineering
- Wed., October 14, 2020 | 8:30 am - 3:20 pm CDT

Commercial Energy Conservation Code Essentials for Architects
- Fri., October 16, 2020 | 11:00 am - 2:15 pm CDT

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Continuing Education Credit Information

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The International Code Council has approved this event for . 5 CEUs in the specialty area of Building (Preferred Provider No. 1232).

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

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Registration

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