Basics of Structural Steel Design
King of Prussia, PA - Friday, November 8, 2019

Learning Objectives

You’ll be able to:

- Distinguish between and allowable stress design (ASD) and load and resistance factor design (LRFD) for the design of steel buildings.
- Identify appropriate applications for structural steel construction, including commercial and industrial buildings, parking structures and bridges.
- Describe forces on structural steel members, including flexural forces, tension forces and compression forces.
- Discuss strategies for designing connections between structural members, including bolted and welded connections.

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!
Audio recordings of this seminar are available for purchase starting at $269. See registration panel 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.

Basics of Structural Steel Design

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

Examine design theory and compare ASD and LRFD methods of steel design
Learn about flexural, tension, and compression member design
Explore combined forces and combined loads

Professional Engineers
- 7.0 PDHs

Architects
- 7.0 HSW Continuing Ed. Hours
- 7.0 AIA LU|HSW

Contractors
- Non-Credit Continuing Ed.

Discuss the design of welded and bolted connections
Review structural steel applications and case studies

Presented by Robert P. Schaffer, P.E.
Additional Learning

Webinar Series

Tree Preservation
- Keys for Success in Tree Preservation
  Tues., Sept. 17, 2019, 11:00 AM - 1:00 PM CDT
- Tree Boot Morphology and Patterns
  Tues., Sept. 17, 2019, 1:30 - 3:00 PM CDT
- Trees as Design Elements and Construction Strategies
  Wed., Sept. 18, 2019, 11:00 AM - 1:00 PM CDT
- Tree Protection and Post Construction
  Wed., Sept. 18, 2019, 1:30 - 3:30 PM CDT

Pedestrian and Bicycle Transport Planning
- Introduction to Current Conditions and Trends in Biking and Walking
  Thurs., Sept. 19, 2019, 11:00 AM - 12:30 PM CDT
- Engineering and Infrastructure: Design for Walkability and Bicyclability
  Thurs., Sept. 19, 2019, 1:00 - 2:30 PM CDT
- Developing a Walking and Biking Plan, Part I
  Fri., Sept. 20, 2019, 11:00 AM - 12:30 PM CDT
- Developing a Walking and Biking Plan, Part II
  Fri., Sept. 20, 2019, 1:00 - 2:30 PM CDT

Wetlands Law and Compliance
- Understanding Wetlands Laws and Enforcement
  Wed., Sept. 25, 2019, 11:00 AM - 1:00 PM CDT
- Identifying Wetlands and Streams
  Wed., Sept. 25, 2019, 1:30 - 2:30 PM CDT
- Obtaining Water Permit and Certification Process
  Thurs., Sept. 26, 2019, 11:00 AM - 12:30 PM CDT
- Trends and Opportunities in Wetland Preservation, Restoration, Creation and Enhancement
  Thurs., Sept. 26, 2019, 1:00 - 3:00 PM CDT

For more information and other online learning opportunities visit: www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects in all states. Educators and courses for Pennsylvania engineers are not subject to pre-approval.

This seminar is approved by the American Institute of Architects for 7.0 LU|HSW (Sponsor No. J883). Only full attendance can be reported to the AIA/CES. Visit www.halfmoonseminars.org for complete AIA information under this course listing.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 241G000100700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education provider in approved subject areas.

Provides of continuing education for New York professional engineers are considered approved, if the provider is approved by the American Institute of Architects Continuing Education System. Courses are considered approved if they contribute to the professional practice of professional engineering in approved subject areas.

This course offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any contractor licensing entity for mandatory continuing education credit.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

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Robert P. Schaffer, P.E
Bala Consulting Engineers Inc., King of Prussia, PA
Mr. Schaffer has 17 years of experience in structural analysis and design throughout the Mid-Atlantic region and is a licensed professional engineer in Pennsylvania and New Jersey. He is a graduate of Penn State University Architectural Engineering program with an emphasis in Structural Engineering. Mr. Schaffer has project experience in commercial, higher education, pharmaceutical, hospital/life care and multi-family residential markets. In 2012, he was selected by Consulting Engineering Magazine as a Top 40 Under 40 for his achievements in structural engineering.

Here's what past attendees had to say about the program presenter:

Robert P. Schaffer:

“Excellent presenter; knowledgeable and explains concepts well.”  — Structural Engineer
“Great instructor - Highly recommend!”  — Environmental Engineer

“Well versed in subject matter related very well to engineering and construction aspect.”  — Engineer

Seminar Information

Sheraton Valley Forge Hotel
480 North Gulph Road
King of Prussia, PA 19406
(484) 238-1800

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:00 pm
Lunch (On your own)
12:00 - 1:00 pm
Afternoon Session
1:00 - 5:00 pm

Tuition
$289 for individual registration
$269 for three or more simultaneous registrations.

Included with your registration:
Complimentary continental breakfast and printed seminar manual.

How to Register
Visit us online at www.halfmoonseminars.org
Mail-in, fax or U.S. Mail:
Call customer service at 715-835-5900

Cancellations:
Canceled at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a $39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

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Registration
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How to Register

Online: www.halfmoonseminars.org
Phone: 715-835-5900
Fax: 715-835-6066
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278

Complete the entire form. Attach duplicates if necessary.

Registration Information

Name:
Company/Firm:
Address:
City, State, Zip:
Phone:
Email:

Additional Registrants:
Name:
Occupation:
Email:
Phone:

Mail:
Fax:

Complete form. Please send to HalfMoon Education Inc.

Credit Card:
Mastercard, Visa, American Express, or Discover
Credit Card Number:
Expiration Date:
CVV2 Code:
Cardholder Name:
Billing Address:
City, State, Zip:
Signature:
Email:

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