

Agenda

Introduction to Course and ASCE 7-10 (Chapter 1)

History of ASCE 7	Contract documents/International Building Code
Types of structural loads	General structural integrity
Classifying buildings and structures	Modifying and expanding existing structures

Load Combinations, Dead Loads, Live Loads (Chapters 2, 3, 4)

Strength design vs. allowable stress design	
Changes from 7/05 to 7/10	
Weight of materials and structure	Soil loads and hydrostatic pressure
Uniform loads/concentrated loads	Partition loads
Handrail, guardrail, etc. loads	
Ultimate	
Safety v/s serviceability	
Live load reductions	

Snow and Rain Loads (Chapters 7 & 8)

Calculating rain and snow loads on roofs
Design coefficients
Unbalanced, drifting and sliding loads

Seismic Design Criteria (Chapter 11)

Seismic ground motion values/geologic hazards and geotechnical investigation
Site class
Design response spectrum
Importance factor and occupancy factor
Seismic design categories

Seismic Design Requirements for Buildings (Chapter 12)

Structural systems selection	R, Cd, omega factors
Diaphragm flexibility	Structural irregularities
Seismic weight	Equivalent lateral force procedure
Drift and deformation	

Earthquake Loads (Chapters 13, 14, 15)

Scope and applicability
Seismic ground motion values/geologic hazards and geotechnical investigation
Importance factor and occupancy category
Seismic design category
Simplified structural design criteria for bearing walls and building frame systems
Design requirements for non-structural components

Wind Loads on Main Wind Force Resisting Systems (Chapters 26, 27 & 28)

Wind speed, importance factor, exposure, enclosure classifications
Directional procedure and envelope procedure

Wind Loads on Components & Cladding (Chapters 29 & 30)

Solid freestanding walls and solid signs	
Rooftop structures	Parapets and overhangs
Components and cladding (C&C) on low-rise buildings	
C&C on buildings greater than 60'	C&C on buildings less than 160'
C&C on parapets and overhangs	
C&C on rooftop structures and building equipment	

Structural Design Loads under the ASCE 7-10 Standard

Atlanta, GA - Friday, November 30, 2018



Halfmoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

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Learning Objectives

You'll be able to:

Identify various types of structural loads, and understand the classification of buildings.

Define design standards for load combinations, dead loads and live loads.

Calculate rain and snow loads on roofs.

Determine wind loads, factoring in wind speed, exposure and enclosure classifications.

Explore earthquake loads and seismic design criteria.



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Review types of structural loads and principles of general structural integrity

Learn how to design for live loads, dead loads and soil loads

Calculate rain and snow loads on roofs

Explore wind load factors including wind speed, exposure and enclosure classifications

Discuss seismic design criteria and explore earthquake loads

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 Public Protection PDU's

6.5 AIA Learning Units

International Code

Council (Building)

.65 CEUs

Contractors

Non-Credit Continuing Ed.



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Brian L. Dance, PE, SE, PMP



Mr. Dance is a director with Ankura Consulting in their Global Construction Practice. With 15 years in the design and construction industries, he has obtained broad experience as a structural engineer on projects ranging from custom wood-framed homes, to multi-story steel and concrete structures, to nuclear power plant modification. His experience includes projects in the industrial, healthcare, aviation, education, multi-family housing and retail sectors throughout North America and abroad. Mr. Dance has experience in the analysis and design of both public and private buildings, working on projects for both state and federal governments. Currently, he provides consulting, analysis and advisory services on design and construction projects. Mr. Dance has experience in the analysis of complex technical disputes involving design and construction issues relevant to owners, designers, constructors, their insurers and counsel. He is licensed as a professional engineer (PE) and a structural engineer (SE) in multiple states. Mr. Dance is also certified as a project management professional (PMP) with the Project Management Institute and as a model law structural engineer with NCEES.

Trey Thomas, PE



Mr. Thomas is a project manager with Innovative Engineering, Inc. and has over 14 years of experience in providing structural engineering on commercial and federal projects, including significant experience on projects for the DoD, CDC, DHS, USDA and VA. He received his BSCET degree from Southern Polytechnic State University, and he has received specialized training in a diverse range of technical areas including several which are unique to the structural profession. Additionally, Mr. Thomas has significant experience designing new and renovated facilities including secure facilities; explosive ordinance and disposal buildings; laboratories; headquarters/operations facilities including training, office and admin buildings; and housing facilities. He has served as the structural engineer for projects requiring full and partial designs, utilities hardening, master planning, programming, and value engineering. Mr. Thomas’ responsibilities include involvement in preliminary through final design and construction administration, as well as performing a broad range of structural evaluations and assessments.

Seminar Information

Embassy Suites - Galleria

2815 Akers Mill Road SE
Atlanta, GA 30339
(770) 984-9300

Tuition

\$279 for individual registration
\$259 for Three or more registrants from the same company at the same time.

Each registration includes a complimentary continental breakfast and printed seminar manual. Registration does not include a copy of ASCE 7-10.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel 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 CD/manual package. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to Georgia professional engineers and 6.5 Public Protection PDUs to Georgia architects. Educators and courses are not subject to preapproval in Georgia.

This seminar is approved by the American Institute of Architects for 6.5 Learning Units (Provider No. J885). Only full attendance can be reported to the AIA/CES.

Architects and engineers seeking continuing education credit in other states will be able to apply the hours earned at this seminar. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved architect continuing education sponsor in New York.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building.

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

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.

Additional Learning

Webinar Series

Construction Cost Estimating

- **Introduction to Cost Estimating**
Thurs., Oct. 25, 2018, 11:00 AM - 12:30 PM CDT
- **Cost Components – A Closer Look at the Estimates**
Thurs., Oct. 25, 2018, 1:00 - 3:00 PM CDT
- **Cost Estimate Organization and Examples**
Fri., Oct. 26, 2018, 11:00 AM - 1:00 PM CDT
- **Cost Estimating Topics**
Fri., Oct. 26, 2018, 1:30 - 3:00 PM CDT

Geothermal Heating and Cooling

- **Thermodynamic Basics of Geothermal Systems**
Thurs., Nov. 1, 2018, 11:00 AM - 12:00 PM CDT
- **Understanding Earth Loop Systems**
Thurs., Nov. 1, 2018, 12:30 - 2:00 PM CDT
- **Choosing and Designing Geothermal Systems**
Fri., Nov. 2, 2018, 11:00 AM - 12:00 PM CDT
- **Evaluating and Maintaining Geothermal Systems**
Fri., Nov. 2, 2018, 12:30 - 2:30 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

Can’t Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Structural Design Loads under the ASCE 7-10 Standard

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How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____
	Company/Firm: _____
	Address: _____
	City: _____ State: _____ Zip: _____
Phone: 715-835-5900	Occupation: _____
	Email: _____
Fax: 715-835-6066	Phone: _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Additional Registrants:
	Name: _____
	Occupation: _____
	Email: _____
	Phone: _____
	Name: _____
	Occupation: _____
	Email: _____
	Phone: _____
Complete the entire form. Attach duplicates if necessary.	Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.
	() I need special accommodations. Please contact me.

Tuition

- () **I will be attending the live seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.
- () **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable 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: _____

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Email: _____

