

Credit Information

These webinars are open to the public and offer 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states.

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The American Institute of Architects Continuing Education System has approved these courses for 6.5 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved the Soil Mechanics, Bearing Capacity and Slope Stabilization in New England course for .65 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

The International Code Council has approved the International Building Code 2021 course for .65 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).

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Recordings of each webinar are available for purchase. See course listing online 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. Self-study packages do not qualify for AIA credit.

Live, Interactive Webinars

- Soil Mechanics, Bearing Capacity and Slope Stabilization in New England
- International Building Code 2021

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Live, Interactive Webinars

Soil Mechanics, Bearing Capacity and Slope Stabilization in New England

- Thursday, October 7, 2021 | 8:30 am - 4:30 pm EDT

International Building Code 2021

- Thursday, October 14, 2021 | 9:00 am - 5:00 pm EDT

To register, view detailed presenter biographies, and see other learning opportunities, please visit:

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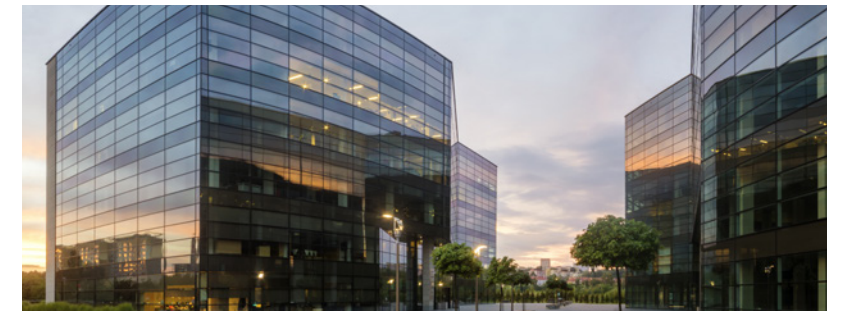
HalfMoon Education Live Webinars



Soil Mechanics, Bearing Capacity and Slope Stabilization in New England

Thursday, October 7, 2021 | 8:30 am - 4:30 pm EDT

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
AIA: 6.5 LU|HSW International Code Council: .65 CEUs (Sitework)



International Building Code 2021

Thursday, October 14, 2021 | 9:00 am - 5:00 pm EDT

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AIA
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Soil Mechanics, Bearing Capacity and Slope Stabilization in New England

Thursday, October 7, 2021 | 8:30 am - 4:30 pm EDT (incl. a 60-min break)

Tuition: \$289 per registrant, \$239 per registrant for three or more

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
AIA: 6.5 LU|HSW International Code Council: .65 CEUs (Sitework)

Agenda

Soil Investigation and Classification

- Properties of soil
 - Importance of recognizing soil properties
 - Formation of soils
 - Types of soils
- Soil investigations on construction sites
 - Site reconnaissance
 - Geology and visual observations
 - Drilling and boring
 - Test pits
 - Establishing appropriate investigational methods
- Obtaining and reviewing geotechnical reports

Reviewing Hydraulic and Mechanical Properties of Soils

- Soil permeability
- Compressibility of soil
- Soil hydraulics
 - Saturation, hydraulic gradient, and conductivity
- Drained and undrained shear strength
- Vertical and lateral earth pressure
- Stress and failure in soils
- Unsaturated soils

Determining and Increasing Bearing Capacity

- Calculating bearing capacity
- Bearing capacity of shallow foundations
- Bearing capacity of piers and piles
- Increasing bearing capacity

Determining and Increasing Slope Stability

- Natural and engineered slopes
- Reviewing basic concepts of slope stability
- Understanding slope failures
- Impact of surface water and groundwater
- Strength selection for slope stability
- Methods of slope stability analysis
- Instrumenting and monitoring for slope stability
- Examining slope stabilization methods
 - Unloading
 - Draining and compaction
 - Reinforcements
 - Soil improvement

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Agenda

A Brief History of Modern Code Development

- Code development process
- Chapter 1: Scope and Administration
 - Modifications and alternatives to code compliance
 - Requirements for permitting
- Chapter 3: Occupancy Classification and Use
- Chapter 4: Special Detailed Requirements Based on Use and Occupancy (summary)

Chapters 5 and 6

- Chapter 5: General Building Heights and Areas
 - Building height and area determination
 - Calculating permitted increases in height and area
 - Mixed use and occupancy
- Chapter 6: Types of Construction

Chapters 7, 8, and 9

- Chapter 7: Fire and Smoke Protection Features
 - Exterior walls
 - Fire walls
 - Fire barriers and fire partitions
 - Smoke barriers and smoke partitions
 - Horizontal assemblies
- Chapter 8: Interior Finishes
- Chapter 9: Fire Protection and Life Safety Systems

Chapters 10, 11, 16, 17, and 19

- Chapter 10: Means of Egress
- Chapters 11, 16, 17, and 19
 - Accessibility
 - Structural design
 - Special inspections and tests
 - Plumbing systems

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Additional Learning

Erosion and Sediment Control

- Thurs, Sept 9, 2021 | 9:00 am - 4:00 pm CDT

How to Successfully Design and Construct a Retaining Wall

- Fri, Sept 10, 2021 | 11:00 am - 1:00 pm CDT

Engineered Lumber Design and Construction

- Fri, Sept 10, 2021 | 8:30 am - 4:20 pm CDT

Foundation Damage and Repair: Science, Materials and Techniques

- Fri, Sept 10, 2021 | 9:30 am - 5:00 pm CDT

Introduction to HEC-HMS Modeling

- Fri, Sept 10, 2021 | 8:30 am - 4:00 pm CDT

National Electrical Code 2020

- Mon, Sept 13, 2021 | 8:30 am - 5:00 pm CDT

Avoiding Ethical Pitfalls Along the Road to Sustainable Construction

- Tues, Sept 14, 2021 | 9:00 - 10:00 am CDT

Geothermal Heating and Cooling: Technology, Applications, and Economics

- Wed, Sept 15, 2021 | 8:00 am - 3:30 pm CDT

Retaining Wall Design and Slope Stabilization Techniques

- Wed, Sept 15, 2021 | 8:30 am - 5:00 pm CDT

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

Faculty

Soil Mechanics, Bearing Capacity and Slope Stabilization in New England

Antonios Vytiniotis, Ph.D., P.E., is a managing engineer in Exponent's Civil practice, a member of the Geo-Institute's Deep Foundation and Computation Geotechnics committees and a regional director for the Society of Construction Law – North America. He has background in structural and geotechnical engineering, geotechnical earthquake engineering, and numerical analysis. He has worked on numerous projects in more than 20 states and multiple countries, assisting project owners, law firms, insurance companies and developers. His analyses consist of assessing soil improvement, soil-structure interaction, dam safety, causation of MSE wall failures, effects of adjacent construction (such as vibrations or pile driving), soil heave or settlements, pipeline installation, water intrusion, and backfill quality. He is experienced in evaluating slope stability, performing mechanical and flow-through-porous media finite element analyses and soil-structure interaction using various software such as Plaxis, Flac, Geostudio, ABAQUS, LPILE, FEFLOW and GROUP. Additionally, Dr. Vytiniotis has experience in data analysis, signal processing and GIS. Dr. Vytiniotis has performed research on the seismic response of pile-supported wharves, seismic slope stability, the effectiveness of prefabricated vertical drains (earthquake drains) and soil densification in reducing liquefaction risk, the effect of gravel drains in amplifying seismic accelerations, and numerical simulations of centrifuge experiments. In the past, Dr. Vytiniotis gained international experience in Greece and Switzerland, and was appointed lecturer at MIT.

International Building Code 2021

Jerry R. Tepe, FAIA *Owner at JRT-AIA Architect, in Concord, New Hampshire*

Mr. Tepe is a licensed architect. In practice for more than 40 years, he has been both a member and an officer of large E/A firms and a sole practitioner. His project experience ranges from single-family dwellings to large, multi-million dollar commercial and industrial facilities. As a sole proprietor, his firm specializes in building, fire and accessibility code (ADA) consulting to architects, contractors, insurance and legal professionals and private entities, including third-party plan reviews and accessibility inspections.

Mr. Tepe has been active in the code development process through the AIA since joining the AIA Codes and Standards Committee in 1987. With the creation of the International Code Council (ICC), he participated in the initial development of the International Building Code on the General/Occupancies subcommittee and was the chair of that group for two terms. Mr. Tepe was a member of the International Fire Code Development Committee for two terms and also the IBC Fire Safety and Egress Code Development Committees. Additionally, he served a term on the ICC Code Correlation Committee. He has made numerous presentations to conference audiences on topics related to building code enforcement and interpretation issues.

In 1990 when the ADA was first proposed, and in 2004 when the last major revision was developed, Mr. Tepe served on AIA task forces to review the proposed requirements/changes and respond to the government's request for comments.

Mr. Tepe has held all offices at both the state level (AIANH) and the regional level (AIA New England). He was active in the legislative process in New Hampshire to adopt the first statewide set of building codes. He has taught numerous code and accessibility related issues in New Hampshire, New England and at BOCA, ICC, BSA and AIA conferences. He is a past chair of the Building Code Board of Appeals in Concord, New Hampshire. He has also served on several other code and building related state and local committees and groups and is a past chair of the AIA Center for Building Science and Performance Knowledge Community.

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