

Agenda

Presented by Ray Meyer, P.E.

Soil Investigation and Classification

- Importance of knowing construction site soils
- Soil classification
 - Importance of recognizing soil properties
 - Types of soils
- Soil investigation
 - Site reconnaissance
 - Geology and visual observations
 - Test pits
 - Establishing appropriate investigational methods
 - Obtaining and reviewing geotechnical reports
- Formation of soils
- Drilling and boring

Reviewing Hydraulic and Mechanical Properties of Soils

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

Complying with Building Code Provisions on Soils

- International Building Code (IBC)
- International Residential Code (IRC)
- Infrastructure standards and guidelines

Determining and Increasing Bearing Capacity

- Calculating bearing capacity
- Bearing capacity of shallow foundations
- Bearing capacity of piers and piles
- Increasing bearing capacity
 - Draining and compaction
 - Grouting
- Soil improvement

Determining and Improving Slope Stability

- Natural and engineered slopes
- Reviewing basic concepts of slope stability
- Understanding slope failures
- Impact of surface water and groundwater
- Examining slope stabilization methods
 - Covering
 - Draining and compaction
 - Soil improvement
- Unloading
- Reinforcement

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Soils in Construction

Live, Interactive Webinar - Tuesday, June 11, 2024

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



Learning Objectives

You'll be able to:

Classify soils on a project site and conduct soil investigations before breaking ground on a construction project.

Discuss the relevance of soil permeability and compressibility of project site soils and explain the science of stress and failure in soils.

Reference and comply with soil provisions found in the International Building Code and the International Residential Code.

Calculate bearing capacities of soils for shallow foundations and explain the process of increasing bearing capacities.

Differentiate natural and engineered slopes, be able to identify causes of slope failures, and be able to determine appropriate slope stabilization methods.



HalfMoon Education Inc.,
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Soils in Construction

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Understand soil investigation and classification procedures

Review hydraulic and mechanical properties of soils

Comply with building code provisions on soils

Determine and increase bearing capacity

Understand slope stability and learn stabilization methods

Continuing Education Credits

Professional Engineers
7.0 PDHs

Architects
7.0 HSW CE Hours
7.0 AIA LU | HSW

Landscape Architects
7.0 HSW CE Hours
7.0 LA CES HSW PDHs
International Code Council
.7 CEUs (Sitework)



Webinar Information

Online - Tuesday, June 11, 2024

Log into Webinar 8:00 - 8:30 am CDT	Break 12:15 - 1:15 pm CDT
Morning Session 8:30 am - 12:15 pm CDT	Afternoon Session 1:15 - 5:00 pm CDT

Tuition
\$339 for individual registration.
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Faculty

Ray Meyer, P.E.
Regional Manager-Texas and Partner with CMT Technical Services, Inc.
Mr. Meyer has over 40 years of experience in geotechnical engineering, construction materials engineering and testing, environmental assessments and forensic investigations. His current practice focuses on expansive and soft soil conditions, soil-structure interaction, foundation investigations, paving design and forensic studies. Mr. Meyer earned his BSCE and MCE degrees from the University of Houston. He is a professional engineer in the State of Texas. Mr. Meyer is an adjunct professor for the College of Engineering Technology, Department of Construction Management at the University of Houston-Main Campus where he instructs courses in Construction Materials Testing and Foundation Engineering. He is a past president of the University of Houston Engineering Alumni Association, a past president of the American Society of Civil Engineers' National Deep Foundation Committee, and a past president of the Texas Council of Engineering Laboratories-Houston branch.

Credit Information

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers, 7.0 HSW continuing education hours for licensed architects, and 7.0 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System and Landscape Architecture Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2), and §79-1.5(i)(2)). Most other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 7.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits
The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
7.0 HSW LUs (AIA) 7.0 HSW PDHs (LA CES)

Additional Learning

- Understanding and Strengthening the Soil Food Web for Sustainable Landscapes**
- Friday, May 10, 2024 | 9:00 am - 12:00 pm CDT
- Techniques to Promote Groundwater Conservation**
- Monday, May 13, 2024 | 9:00 am - 4:30 pm CDT
- Temporary Construction Site Erosion and Sediment Control BMPs**
- Monday, May 13, 2024 | 9:00 am - 4:00 pm CDT
- Roadway Design**
- Tuesday, May 14, 2024 | 8:30 am - 5:00 pm CDT
- Adding Basements to Existing Buildings**
- Wednesday, May 15, 2024 | 9:00 am - 4:00 pm CDT
- Managing Engineering Liability and Risk**
- Wednesday, May 15, 2024 | 8:30 am - 4:30 pm CDT
- A Closer Look: Federal Strategies in Addressing PFAS Contamination**
- Thursday, May 16, 2024 | 9:00 - 11:00 am CDT
- Heritage Trees: Why and How to Save and Protect Them**
- Friday, May 17, 2024 | 10:00 am - 1:00 pm CDT
- Construction Contract Workshop**
- Monday, May 20, 2024 | 8:30 am - 5:00 pm CDT
- Wetland Preservation, Restoration, Creation and Enhancement**
- Tuesday, May 21, 2024 | 10:00 am - 12:00 pm CDT
- Seismic Design and Construction**
- Thursday, May 23, 2024 | 8:30 am - 5:00 pm CDT
- Floodplain Modeling, Mapping and Regulation**
- Wednesday, May 29, 2024 | 10:00 am - 2:00 pm CDT
- Thursday, May 30, 2024 | 10:00 am - 2:00 pm CDT
- How to Use Less “Toxic” Weed Control**
- Wednesday, May 29, 2024 | 10:00 am - 12:00 pm CDT
- Understanding Subsidence Caused by Groundwater Withdrawal**
- Wednesday, May 29, 2024 | 12:00 - 2:00 pm CDT
- Rain Garden Design, Construction and Maintenance**
- Thursday, May 30, 2024 | 9:00 am - 4:00 pm CDT
- Advanced HEC-RAS Modeling**
- Friday, May 31, 2024 | 8:30 am - 5:30 pm CDT
- The Tree Course: Science, Design, and Sustainability**
- Friday, May 31, 2024 | 9:00 am - 4:30 pm CDT

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