

Agenda

Presented by Jeffrey L. Snyder, P.E.

Soil Investigation and Classification

Properties of soil

- Importance of recognizing soil properties
- Formation of soils
- Types of soils

Soil investigation

- 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

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
- Soil improvement

Determining and Increasing 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

- Unloading
- Draining and compaction
- Reinforcement
- Soil improvement



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Soil Mechanics, Bearing Capacity and Slope Stabilization

Live, Interactive Webinar - Tuesday, September 10, 2024

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



Learning Objectives

You'll be able to:

Describe the properties of soils that affect bearing capacity and slope stability.

Identify appropriate soil investigation methods.

Define soil permeability, compressibility, conductivity and drained and undrained shear strength.

Determine bearing capacity and know how to increase it through draining and compaction.

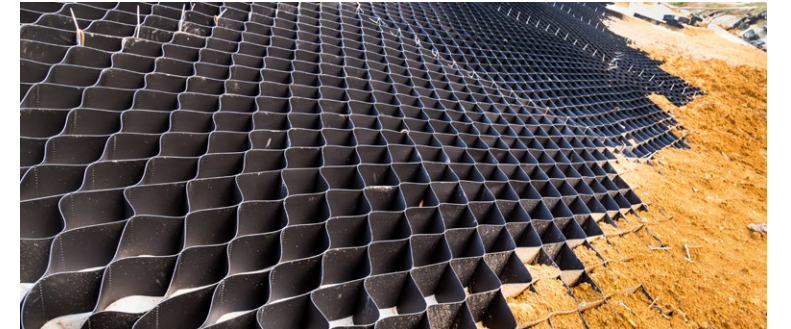
Evaluate slope stability and identify causes of slope failures.

Explore slope stabilization methods including reinforcement and soil improvement.



HalfMoon Education Inc., Your LIVE Education Leader Presents Soil Mechanics, Bearing Capacity and Slope Stabilization

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Explore the importance of soil properties and soil investigation on construction sites

Review hydraulic and mechanical properties of soils

Calculate bearing capacity

Study basic concepts of slope stability

Examine slope stabilization methods

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 HSW CE Hours

6.5 AIA LU | HSW

Landscape Architects

6.5 HSW CE Hours

6.5 LA CES HSW PDHs

International Code Council

.65 CEUs (Sitework)

Floodplain Managers

6.5 ASFPM CECs



Webinar Information

Online - Tuesday, September 10, 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 - 4:30 pm CDT

Tuition
\$339 for individual registration.
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Faculty

Jeffrey L. Snyder, PE
Senior Geotechnical Engineer at GHD Services, Inc.
Mr. Snyder is a geotechnical professional for transportation, commercial, industrial and municipal projects throughout the upper Midwest including in Ohio, Iowa, Michigan, Illinois, Indiana, Pennsylvania, and Kentucky. He provides analyses and recommendations for shallow and deep foundation systems as well as landslide evaluation and remediation. He has co-authored several papers on lateral loading behavior of driven pile foundations. Mr. Snyder earned his B.S. and M.S. degrees in Civil Engineering from Brigham Young University.

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers, 6.5 HSW continuing education hours for licensed architects, and 6.5 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. 24GP00049300) 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 (AIA/CES) and the Landscape Architecture Continuing Education System (LA/CES). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 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 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

This Association of State Floodplain Managers has approved this course for 6.5 CECs for floodplain managers.

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).

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6.5 HSW LUs (AIA) 6.5 HSW PDHs (LA CES)

Additional Learning

Soil Investigation and Classification
- Friday, August 9 2024 | 10:00 am - 1:15 pm CDT

Pervious Concrete Pavements: Design, Construction, and Maintenance
- Tuesday, August 13, 2024 | 9:00 am - 12:10 pm CDT

Detecting and Understanding Emerging Chemicals in Water Supplies
- Wednesday, August 14, 2024 | 9:00 - 11:00 am CDT

Engineering Ethics and Engineering Code of Conduct for Professional Engineers
- Friday, August 16, 2024 | 10:00 am - 12:00 pm CDT

Finance and Engineering Economics for Engineers
- Monday, August 19, 2024 | 10:00 am - 2:30 pm CDT
- Tuesday, August 20, 2024 | 10:00 am - 2:30 pm CDT

Stream Restoration
- Tuesday, August 20, 2024 | 8:30 am - 5:00 pm CDT

Small-Scale Dredging of Lakes and Rivers
- Thursday, August 22, 2024 | 9:00 am - 4:00 pm CDT

Stormwater Pretreatment
- Monday, August 22, 2024 | 9:00 am - 12:15 pm CDT

Flood-Resistant Design and Construction
- Monday, August 26, 2024 | 9:00 am - 4:30 pm CDT

Soil Oxygen: The Limiting Factor in Urban Forests
- Monday, August 26, 2024 | 2:00 - 4:00 pm CDT

Current Issues in Urban Planning: Climate Planning and Equity Planning
- Wednesday, August 28, 2024 | 9:00 am - 4:00 pm CDT

Physics of Construction of a Building
- Wednesday, August 28, 2024 | 8:30 am - 4:30 pm CDT

Swimming Pool Design and Construction
- Wednesday, August 28, 2024 | 9:00 am - 12:30 pm CDT
- Thursday, August 29, 2024 | 9:00 am - 12:30 pm CDT

Innovations in Edible Landscaping
- Thursday, August 29, 2024 | 1:00 - 4:00 pm CDT

Innovative MS4 Stormwater Management Practices and Procedures
- Thursday, August 29, 2024 | 9:00 am - 12:15 pm CDT

Residential and Small Commercial Roof Design and Construction
- Friday, September 6, 2024 | 9:00 am - 4:30 pm CDT

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