

Agenda

Presented by Joseph S. Cooke, P.E.

Evaluating Building Sites

- | | |
|-------------------------|-------------------------|
| Soil mechanics overview | Site exploration |
| Subsurface exploration | Laboratory soil testing |
| Design soil profile | |

Complying with Ohio Building Codes and Best Practices

- Ohio building code provisions on shallow foundations
- Special inspection requirements
- Best practices in Ohio

Shallow Foundation Design

- | | |
|--------------------------|------------------------|
| Using spread footings | Using mat foundations |
| Using hybrid foundations | Using slab foundations |

Allowable Settlement and Consolidation

- Determining bearing capacity
- Understanding consolidation and settlement
- Effects of load types and soil types
- Increasing bearing capacity

Shallow Foundation Construction

- | | |
|------------------------------|-------------------------------|
| Grading and soil improvement | Dewatering and drainage |
| Excavation and underpinning | Complying with building codes |

Basements as Foundations

- Construction of footings, floor and walls
- Drainage considerations
- Walk-outs

Handling Special Considerations in Foundation Design

- Foundations on stratified soils
- Foundations on expansive soils
- Foundations on reinforced soils
- Foundations on slopes

Diagnosing and Repairing Foundation Problems

- | | |
|-----------------------------|-------------------|
| Causes of foundation damage | Repair techniques |
| Ground improvement | Underpinning |
| Soil tiebacks | Piers, piles |

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. 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. Self-study packages do not qualify for AIA credit.

Shallow Foundation Design, Construction and Repair in Ohio

Live, Interactive Webinar - Tuesday, August 17, 2021

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PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Refresh your knowledge of soil mechanics and get tips on evaluating building site soils.

Comply with Ohio building codes and special inspection requirements

Discuss the design of spread footings, mat foundations, slab foundations and hybrid foundations.

Determine bearing capacity, and consider the effects of foundation settlement and soil consolidation.

Explore the design and construction of basements, including walk-outs.

Diagnose foundation problems, and fix them using soil tiebacks, underpinning, piers, and piles.



HalfMoon Education Online Learning

Shallow Foundation Design, Construction and Repair in Ohio

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Evaluate building site soils

Comply with Ohio building codes

Design shallow foundations

Determine allowable settlement and consolidation

Review best practices in foundation construction

Diagnose and repair foundation problems

Continuing Education Credits

Professional Engineers

7.0 PDHs

Architects

7.0 HSW CE Hours

AIA

7.0 LU | HSW

International Code Council

.7 CEUs (Building)

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Faculty

Joseph S. Cooke, P.E. *Geotechnical Engineer*
Mr. Cooke’s work experience includes services in the geotechnical, construction, construction testing/inspection and environmental engineering fields. His project experience includes projects as large as over 1,400 acres, buildings as large as 1.5 million square feet, “portfolio” work on as many as 75 projects in one package, and linear projects as long as 40 miles. His specific specialties include earthwork and soil issues, construction materials and project performance, forensic analysis of geotechnical and materials issues, large project planning and geotechnical-related construction planning and analysis. He has provided geotechnical engineering on over 1,500 projects in over 15 states.

Webinar Information

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

Tuition
\$289 for individual registration
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How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
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Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

Additional Learning

- Managing Construction with AIA Document A201: General Conditions**
- Tues, July 20, 2021 | 8:30 am - 4:00 pm CDT

Deep Excavations
- Wed, July 21, 2021 | 8:30 am - 4:30 pm CDT

High-Performance Building Envelopes
- Wed, July 21, 2021 | 11:00 am - 2:45 pm CDT
- Thurs, July 22, 2021 | 11:00 am - 2:45 pm CDT

Technical Writing Workshop for Design Professionals
- Fri, July 23, 2021 | 8:30 am - 5:00 pm CDT

Understanding and Working with Urban Soils
- Fri, July 23, 2021 | 8:30 - 10:30 am CDT

Site Design
- Mon, July 26, 2021 | 8:30 am - 5:00 pm CDT

Structural Forensic Engineering
- Tues, July 27, 2021 | 11:00 am - 2:30 pm CDT
- Wed, July 28, 2021 | 11:00 am - 2:30 pm CDT
- Architectural Application for Means of Egress in 2018 IBC**
- Wed, July 28, 2021 | 9:00 am - 4:30 pm CDT

Project Management for Engineers
- Wed, July 28, 2021 | 8:30 am - 4:30 pm CDT

Reading, Interpreting and Writing Land Descriptions Workshops
- Wed, July 28, 2021 | 9:00 am - 4:00 pm CDT

2018 IBC Mixed Occupancies, Allowable Area, and Type of Construction
- Thurs, July 29, 2021 | 8:30 am - 5:00 pm CDT

Slope Stabilization and Landslide Prevention
- Tues, Aug 3, 2021 | 8:30 am - 5:00 pm CDT

Basics of Structural Steel Design
- Thurs, Aug 5, 2021 | 8:30 am - 3:45 pm CDT
- For more information and other online learning opportunities visit:
www.halfmoonseminars.org

Continuing Education Credit Information
This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in Ohio.

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

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

Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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Registration

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