

Agenda

Presented by Ibraheem Shunnar

Shallow Foundation Design Day One

Wednesday, November 11, 2020 | 11:00 am - 2:15 pm CST (including a 15-min. break)

Evaluating Building Sites

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

Shallow Foundation Design

- Bearing capacity
- Settlement
- Spread footings
- Mat foundations

Shallow Foundation Design Day Two

Thursday, November 12, 2020 | 11:00 am - 2:15 pm CST (including a 15-min. break)

Special Considerations in Foundation Design and Construction

- Foundations on expansive soils
- Foundations on stratified soils
- Foundations on the slope
- Retaining and basement walls
- Slope stability
- Excavation and grading
- Dewatering and drainage
- Surface preparation and verification
- Complying with building codes

Soil Improvement and Foundation Diagnosis and Repair

- Soil improvement
- Causes of foundation damage
- Repair techniques
 - Structural support
 - Helical piers
 - Mini piles
 - Pit underpinning
 - Grouting methods
 - Cement grouting
 - Compaction grouting
 - Jet grouting
 - Jacked piers
 - Slab jacking
 - Chemical grouting
 - Fracture grouting

Shallow Foundation Design

Online - Wed., November 11, and Thurs., November 12, 2020



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Learning Objectives

You'll be able to:

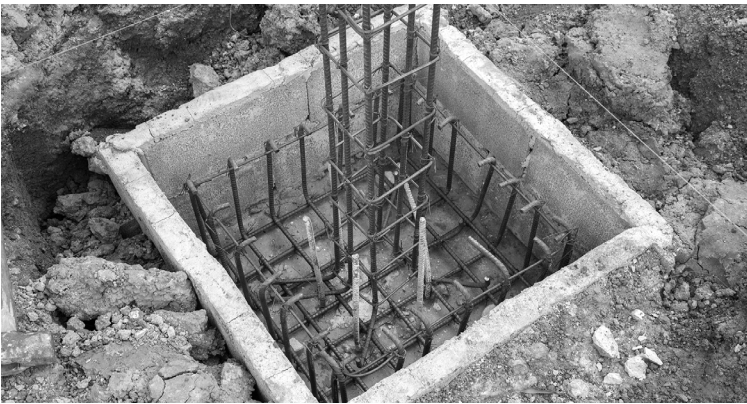
- Evaluate** soil conditions on building sites.
- Explain** the key features of subsurface exploration.
- Identify** recommended and pertinent soil tests, which can be performed in a laboratory, to aid in evaluating site soils.
- Understand** the importance of designing a soil profile for the building site.
- Determine** bearing capacity of the building site and surrounding soil.
- Understand** the effects of settlement and consolidation.
- Explain** the utility of spread footings in transferring loads.
- Examine** the function of mat foundations for alternative soil types.



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HalfMoon Education Online Learning Shallow Foundation Design

Live, Interactive Webinar Series
Wednesday, November 11, and Thursday, November 12, 2020



- Evaluate** soils on building sites
- Create** design soil profiles for sites
- Calculate** bearing capacity and predict expected settlement
- Use** spread footings and mat foundations
- Get tips on** soil improvement
- Diagnose** foundation problems and consider repair options

Continuing Education Credits

Professional Engineers 6.0 PDHs	AIA 6.0 LU HSW
Architects 6.0 HSW CE Hours	International Code Council Pending



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Faculty

Ibraheem Shunnar *Director of Engineering at The Mannik & Smith Group*

Mr. Shunnar has more than 20 years of experience in geotechnical engineering with expertise in specialty foundations, ground improvement, slope stability, instrumentation and waste management. He has a Master’s degree in Geotechnical Engineering from the University of Michigan and is a registered professional engineer. He is the author of many articles and papers on geotechnical engineering. He was the project manager for the Fairlane Green redevelopment project, winner of the 2008 National Phoenix Award. He is also the recipient of the distinguished achievement award from the University of Michigan.

Webinar Information

Day One: Wednesday, November 11, 2020
11:00 am – 2:15 pm CST (including a 15-min. break)

Day Two: Thursday, November 12, 2020
11:00 am – 2:15 pm CST (including a 15-min. break)

(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$299 for individual registration
\$199 for three or more registrants from the same company at the same time.
Included with your registration: PDF seminar manual.

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

Aerial Mapping: Technologies and Procedure
- Tues., October 27, 2020 | 8:30 am - 12:00 pm CDT
- Wed., October 28, 2020 | 8:30 am - 12:15 pm CDT

Passive House: Planning and Design
- Tues., October 27, 2020 | 8:30 am - 4:30 pm CDT

Introduction to the International Green Construction Code (IgCC)
- Wed., October 28, 2020 | 11:00 am - 2:15 pm CDT
- Thurs., October 29, 2020 | 11:00 am - 2:15 pm CDT

Special Inspections under the 2018 International Building Code Chapter 17
- Thurs., October 29, 2020 | 9:30 am - 4:20 pm CDT

Soils in Construction: An Interactive Workshop
- Thurs, October 29, 2020 | 8:30 am - 5:00 pm CDT

Retaining Wall Design and Global Stability Analysis
- Mon., November 2, 2020 | 9:00 am – 5:00 pm CST

Stormwater Basins and Underground Systems
- Thurs., Nov. 5, 2020 | 12:00 - 4:00 pm CST
- Fri., Nov. 6, 2020 | 12:00 - 3:30 pm CST

2018 International Existing Building Code: Overview and Requirements for all Compliance Methods
- Fri., November 6, 2020 | 10:00 am – 2:30 pm CST

Threats to Trees
- Thurs., Nov. 12, 2020 | 11:00 am - 3:00 pm CST
- Fri., Nov. 13, 2020 | 11:00 am - 2:30 pm CST

For more information and other online learning opportunities visit:
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Continuing Education Credit Information

This webinar offers 6.0 PDHs to professional engineers and 6.0 HSW continuing education hours to architects licensed in all states.

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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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Registration

Shallow Foundation Design

Live, Interactive Webinar - Wednesday, November 11, and Thursday, November 12, 2020

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Tuition

() **I will be attending the live webinar.** Single Registrant - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.

() **I am not attending.** Please send me the webinar recording:

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