

HalfMoon Education Live Continuing Education Webinars

# Shallow Foundation Design and Construction

**Online - Wednesday, March 1, 2023 | 8:30 am - 4:00 pm CST**

**Credits:**

Professional Engineers: 6.5 PDHs

Architects: 6.5 HSW CE Hours     AIA: 6.5 LU|HSW\*

International Code Council: .65 CEUs (Building)\*\*

\*Live course approval. Pre-approval for on-demand format may be available upon request.

\*\*Live course approval. Not approved for on-demand format.

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AIA  
Continuing  
Education  
Provider



### Evaluating Building Sites

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

### 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  
Obtaining permits and inspections

### Basements as Foundations

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

### Slab-On-Grade Foundations

Advantages and disadvantages  
Materials and site preparation  
Construction process

### Handling Special Considerations in Foundation Design

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

### Presented by

**Daniel Messmer P.E. D. GE** *Project Manager with The Gateway Engineers, Inc., in Pittsburgh, PA*

Mr. Messmer has over 30 years of engineering experience in analysis, design, plan/specification development, and project management/personnel supervision for geotechnical, foundation and structural engineering projects in the transportation, industrial, municipal and commercial fields of civil engineering. Throughout his career he has placed an emphasis on quality control and staff training. Mr. Messmer is a member of the American Society of Civil Engineers, the American Concrete Institute, the American Society of Highway Engineers and the Society of American Military Engineers. He earned his B.S. degree in Civil Engineering from the University of Pittsburgh. Mr. Messmer was accepted into the Academy of Geo-Professionals in 2013.

### Tuition

**\$319** for individual registration  
**\$289** for two or more registrants from the same company at the same time.

**Included with your registration:** *PDF seminar manual.*

Learn More and Register:  
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### Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers and 6.5 HSW continuing education hours for licensed architects in all states.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), 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 and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). 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 LU/HSWs (Sponsor No. J885).\* Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building (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).

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Recordings of this webinar are available for purchase. See details 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.