

HalfMoon Education Live Continuing Education Webinars

# Deep Foundations and Excavations

**Online - Friday, October 14, 2022 | 8:30 am - 4:30 pm CDT**

**Credits:**

Professional Engineers: 7.0 PDHs

Architects: 7.0 HSW CE Hours      AIA: 7.0 LU|HSW

International Code Council: .7 CEUs (Sitework)

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### **Soil Mechanics, Bearing Capacity, and Earth Retention**

Understanding soil characteristics

Bearing capacity	Basic earth pressure theory
Bracing systems	Tieback anchors
Soil nail walls	Sheet pile and soldier pile walls
Secant pile and diaphragm walls	
Top-down excavations	Using cofferdams

### **Reviewing Deep Foundation Types**

Types of deep foundations

- Driven piles
- Drilled shafts
- Auger cast piles
- Others

Hybrid foundations

Grouping piles

Selecting foundation type: life expectancy, cost, soil conditions

### **Pile Design**

Effective stress      Estimating axial capacity

Skin friction

- Granular soils and cohesive soils

End bearing

- Soil and rock

Uplift capacity      Computing settlement

Down drag      Lateral capacity design

Moment resistance      Battered piles

### **Installation and Testing**

Construction preparation      Construction techniques

Quality assurance/quality control

Field records      Pile testing

Performance/integrity

- Load test, PDA, CAP/WAP, PIT/PET

Restriking

### **Presented by David Harmanos**

*Branch Manager at Hillis-Carnes Engineering Associates, Inc.*

Mr. Harmanos is a professional engineer with extensive experience in subsurface exploration, soil testing, infiltration testing, geosynthetics, and seismic and advanced analysis. His expertise includes commercial, industrial and institutional foundation design; retaining wall and steep slope design; sinkhole remediation; landfill design; site work; forensic engineering; LEED consulting; and construction quality control/assurance (CQA/QC). Mr. Harmanos is a graduate of Drexel University where he received both his BS and MS degrees in Civil Engineering (Geosynthetics and Geotechnical). Hillis-Carnes performs geotechnical engineering consulting and laboratory testing services. Its construction services include evaluation of bearing materials, inspection of pile driving, slope inclinometer installation and monitoring, and retaining wall construction observation.

### **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.

### **Can't Attend? Order the Webinar as an On-Demand 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.

### **Credit Information**

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers and 7.0 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 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 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).

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