

Agenda

Presented by David Harmanos

Complying with Codes and Standards for Shallow Foundations

- Building code and residential code requirements
- Structural requirements and requirements for concrete and steel reinforcement

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 |

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 |

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Shallow Foundation Design, Construction and Repair

Live, Interactive Webinar - Tuesday, July 16, 2024

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Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Comply with structural requirements and requirements for concrete and steel reinforcement.

Evaluate building sites and discuss site soils.

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

Determine bearing capacity and allow for consolidation and settlement.

Examine basements as foundations, focusing on design and drainage.

Diagnose and repair foundation problems.



HalfMoon Education Inc.,
Your LIVE Education Leader Presents

Shallow Foundation Design, Construction and Repair

Live, Interactive Webinar - Tuesday, July 16, 2024



Comply with codes and standards for shallow foundations

Explore shallow foundation design

Determine allowable settlement and consolidation

Get tips on the foundation construction process

Discuss special considerations for basements, including walk-outs

Get tips on diagnosing and repairing foundation problems

Continuing Education Credits

Professional Engineers
7.0 PDHs

Architects
7.0 HSW CE Hours
7.0 AIA LU | HSW

International Code Council
.7 CEUs (Building)



Webinar Information

Online - Tuesday, July 16, 2024

Log into Webinar 8:00 - 8:30 am CDT	Break 12:15 - 12:45 pm CDT
Morning Session 8:30 am - 12:15 pm CDT	Afternoon Session 12:45 - 4:30 pm CDT

Tuition
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Faculty

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.

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 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. 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 HSW LUs (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).

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).

On-Demand Credits
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7.0 HSW LUs (AIA)

Additional Learning

- Benchmarking and Building Performance Standards: Addressing Climate Change and Equity in the Built Environment**
- Monday, June 17, 2024 | 9:00 am - 4:00 pm CDT
- Designing to Withstand Tornadoic Loads on Buildings**
- Monday, June 17, 2024 | 9:00 am - 4:00 pm CDT
- How to Design, Construct and Maintain a Mechanically Stabilized Earth (MSE) Wall**
- Tuesday, June 18, 2024 | 9:00 am - 12:00 pm CDT
- Introduction to the National Environmental Policy Act (NEPA)**
- Tuesday, June 18, 2024 | 9:00 am - 4:00 pm CDT
- Mastering RFQ & RFP Responses:Crafting Winning Proposals**
- Tuesday, June 18, 2024 | 1:00 - 3:00 pm CDT
- Environmental Law for Engineers**
- Thursday, June 20, 2024 | 8:30 am - 3:20 pm CDT
- Moisture-Resistant Buildings**
- Thursday, June 20, 2024 | 9:00 am - 4:00 pm CDT
- Designing for Accessibility under ADA Standards and IBC**
- Friday, June 21, 2024 | 8:30 am - 4:30 pm CDT
- Brownfields Assessments, Grants and Redevelopment Opportunities**
- Tuesday, June 25, 2024 | 10:00 am - 12:00 pm CDT
- Elevating Homes for Flood Resistance**
- Tuesday, June 25, 2024 | 9:00 am - 4:00 pm CDT
- Generation Interconnection under the RTO Model and Changes Coming from Order 2023**
- Tuesday, June 25, 2024 | 2:00 - 4:00 pm CDT
- Passive House Design and Construction**
- Wednesday, June 26, 2024 | 9:00 am - 4:30 pm CDT
- Deep Dive into Retaining Wall Layout for Site Designers**
- Tuesday, July 2, 2024 | 9:00 - 11:00 am CDT
- Modular Design and Construction**
- Tuesday, July 2, 2024 | 1:00 - 3:00 pm CDT
- Servicing and Maintaining EV Battery-Backed Chargers**
- Monday, July 15, 2024 | 1:00 - 3:00 pm CDT
- Roadmap to Ethical Issues in Construction: A Primer for Design Professionals**
- Tuesday, July 16, 2024 | 11:00 am - 1:00 pm CDT

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