

Credit Information

Wiring Basics for Small Commercial Buildings under the National Electrical Code

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and 6.0 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. 24GPOOO49300) and North Carolina (S-O130). 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 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .6 CEUs in the specialty area of Electrical (Preferred Provider No. 1232).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request: 6.0 HSW LUs (AIA)

Soils in Construction

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers, 7.0 HSW continuing education hours for licensed architects, and 7.0 HSW continuing education hours for landscape 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. 24GPOOO49300) and North Carolina (S-O130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects and landscape architects via its registration with the American Institute of Architects Continuing Education System (AIA/CES) and the Landscape Architecture Continuing Education System (LA/CES). 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 Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full participation is reportable to the LA CES.

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

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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).

Live, Interactive Webinars

- Wiring Basics for Small Commercial Buildings under the National Electrical Code
- Soils in Construction

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Live, Interactive Webinars

Wiring Basics for Small Commercial Buildings under the National Electrical Code

- Friday, December 13, 2024 | 9:00 am - 4:00 pm CST

Soils in Construction

- Monday, December 16, 2024 | 8:30 am - 4:30 pm CST



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Credits: Professional Engineers: 6.0 PDHs
Architects: 6.0 HSW CE Hours | AIA: 6.0 LU|HSW
International Code Council: .6 CEUs (Electrical)



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Credits: Professional Engineers: 7.0 PDHs
Architects: 7.0 HSW CE Hours | AIA: 7.0 LU|HSW
Landscape Architects: 7.0 HSW CE Hours | LA CES: 7.0 HSW PDHs
International Code Council: .7 CEUs (Sitework)

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Wiring Basics for Small Commercial Buildings under the National Electrical Code

Friday, December 13, 2024 | 9:00 am - 4:00 pm CST

Tuition: \$339 per registrant
\$237 per attendee for group registrations of two or more people registering at the same time for the same program. *That’s a savings of 30 percent!*

Credits: Professional Engineers: 6.0 PDHs
Architects: 6.0 HSW CE Hours | AIA: 6.0 LU|HSW
International Code Council: .6 CEUs (Electrical)

Agenda:
Application of National Electrical Code 2023 to Commercial Buildings
Purpose and development of National Electrical Code (NEC)
Definitions and chapters General installation requirements

Determining Commercial Electrical Requirements
Determining number of outlets and branch circuits
Conductor types and sizes Wiring methods and connections
Switches

Basic Electrical Design for Small Commercial Buildings
Grounding and bonding GFCI and arc-fault interrupters
Surge suppressors and other interrupters
Overcurrent protection devices

Electrical Design for Lighting
Fixtures and circuits for building exteriors, interior egress routes,
work areas, offices, assembly spaces

Special Purpose Equipment and Appliances
HVAC equipment Pumps and water heaters
Manufacturing equipment Other equipment

Safety and Specialty Equipment
Fire and carbon monoxide detection systems
Security systems Renewable energy systems

Presented by Chad Kurdi *Vice President of Engineering, Partner at BKV Group*
Mr. Kurdi has been serving the electrical industry for over 30 years as engineer, electrician and trainer. Mr. Kurdi has engineered (design, specify and analyze) government buildings (police stations, sheriff’s offices, fire stations, city halls, court houses, libraries and jails), housing buildings (affordable, senior, assistant, memory care, adaptable use and student), hospitals, data centers, sport arenas, commercial office buildings, water/wastewater treatment plants and electric utility distribution and substations. Mr. Kurdi’s electrician experience includes estimating, laying out, wiring, installing and maintaining electrical systems for residential and commercial buildings. He has developed and taught thousands of seminar hours over the years at Dunwoody College of Technology, Minnesota Electrical Association, IEEE and others. The seminars include NEC Code, electrician’s exam, MV system, electrical wiring, apprenticeship, estimation, electrical design, Revit MEP and project management. Mr. Kurdi holds a bachelor of science degree in Electrical Engineering and a master’s degree in Adult Education. He is a registered electrical engineer (PE) in 37 states. He holds a Class A master electrician license from the State of Minnesota. Currently, Mr. Kurdi is a senior electrical engineer and Vice President of Engineering at BKV Group (A&E Firm with offices in Chicago, Dallas, DC & Minneapolis). Mr. Kurdi served as NCEL Board Member (Jan 2021 – Present), IAEI MN Chapter President (Jan 2018 - Jan 2023), Chair of IEEE Twin Cities PES/IAS (Aug 2019 - Jan 2023), and Minnesota State Board of Electricity Member (Jan 2018 - Jan 2020).

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Agenda:
Soil Investigation and Classification
Importance of knowing construction site soils
Soil classification

- Importance of recognizing soil properties
- Formation of soils
- Types of soils

Soil investigation

- Site reconnaissance
- Geology and visual observations
- Drilling and boring
- Test pits
- Establishing appropriate investigational methods
- Obtaining and reviewing geotechnical reports

Reviewing Hydraulic and Mechanical Properties of Soils
Soil permeability
Compressibility of soil
Soil hydraulics

- Saturation, hydraulic gradient, and conductivity

Drained and undrained shear strength

- Vertical and lateral earth pressure

Stress and failure in soils

Complying with Building Code Provisions on Soils
International Building Code (IBC)
International Residential Code (IRC)
Infrastructure standards and guidelines

Determining and Increasing Bearing Capacity
Calculating bearing capacity
Bearing capacity of shallow foundations
Bearing capacity of piers and piles
Increasing bearing capacity

- Draining and compaction
- Soil improvement
- Grouting

Determining and Improving Slope Stability
Natural and engineered slopes
Reviewing basic concepts of slope stability
Understanding slope failures
Impact of surface water and groundwater
Examining slope stabilization methods

- Covering
- Draining and compaction
- Reinforcement
- Unloading
- Soil improvement

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Landscape Architects: 7.0 HSW CE Hours | LA CES: 7.0 HSW PDHs
International Code Council: .7 CEUs (Sitework)

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.

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