

Credit Information

Drones in Construction

This webinar offers 6.5 PDHs to professional engineers in all states, 6.5 non-HSW continuing education hours to architects in all states that accept non-HSW coursework, and 6.5 HSW CE hours to landscape architects in all states except New Jersey.

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, architects and landscape architects via its registration with the Landscape Architecture Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2) and §79-1.5(i)(2)). LA CES approval qualifies this course for landscape architects licensed in Florida and North Carolina. HalfMoon Education is not seeking approval for landscape architects in New Jersey. 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 | Elective (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to LA CES.

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).

Soils in Construction

This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects and landscape architects licensed in all states.

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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 Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full participation is reportable to LA CES.

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

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).

Live, Interactive Webinars

- Drones In Construction
- Soils in Construction

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PO Box 278
Altoona, WI 54720-0278



Live, Interactive Webinars

Drones in Construction

- Wednesday, February 16, 2022 | 8:30 am - 4:30 pm CST

Soils in Construction

- Thursday, February 24, 2022 | 12:00 - 4:00 pm CST
- Friday, February 25, 2022 | 12:00 - 4:00 pm CST

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Drones in Construction

Wednesday, February 16, 2022 | 8:30 am - 4:30 pm CST

Credits: Professional Engineers: 6.5 PDHs

Architects: 6.5 Non-HSW CE Hours AIA: 6.5 LU | Elective

Landscape Architects: 6.5 HSW CE Hours LA CES: 6.5 HSW PDHs



Soils in Construction

Thursday, February 24, 2022 | 12:00 - 4:00 pm CST

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

LA CES: 7.0 HSW PDHs International Code Council: .7 CEUs (Building)

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Drones in Construction

Wednesday, February 16, 2022 | 8:30 am - 4:30 pm CST (incl. a 60-min break)

Tuition: \$289 per registrant, \$239 per registrant for three or more

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 Non-HSW CE Hours
AIA: 6.5 LU| Elective Landscape Architects: 6.5 HSW CE Hours
LA CES: 6.5 HSW PDHs

Agenda

Overview of Unmanned Aircraft Systems (UAS) in Construction

- Uses for UAS in construction
 - Mapping
 - Monitor progress
 - Site reconnaissance
 - Improve safety
- Types of UAS
- Economics of using UAS
- In-house vs. outsource UAS

UAS Regulation, Risk and Liability

- Federal and state regulation of drones
- FAA remote pilot certification
- Potential liability risks
- Commercial drone insurance

Construction Site Mapping with UAS

- Benefits
- Software
- Process
- Data analysis and use

Using UAS to Monitor Progress, and Maintain Safety and Quality

- Monitoring construction progress
- Maintaining safety
- Quality control

Post-Construction: Using UAS to Conduct Periodic Structural Inspections

- High-risk inspections
- UAS inspection capabilities
- Case studies

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Recordings of these webinars are available for purchase. Visit these course listings on our website 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.

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Agenda Day One

Soil Investigation and Classification

- 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

Agenda Day Two

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
 - Unloading
 - Draining and compaction
 - Reinforcement
 - Soil improvement

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Faculty

Drones in Construction

Michael Raymond

Having his roots firmly in Kansas City construction, Mr. Raymond has been an apprentice and a journeyman in multiple trades. He is also an experienced estimator and project manager. Mr. Raymond now uses drone technology to help architects, engineers and contractors (AEC) clients achieve a safe and productive worksite throughout the entire project life-cycle, including the creation of digital twins for handover. A veteran of the US Army, he served 11 years as an enlisted combat medic and a commissioned aviation officer flying three types of rotary winged aircraft. He has also owned and operated a hot air balloon ride business for eight years. As “Chief Remote Pilot” for Sky-Cam - Kansas City's advanced drone services, Mr. Raymond offers drones as a service for architects, engineers and constructors. With high-precision and survey-grade sensors he offers thermal/infrared inspections, transmission and distribution infrastructure mapping as well as project documentation and full scope land surveys. He helps train other remote pilot and chief drone program managers on how to safely and effectively use unmanned aerial vehicles in the AEC industry. With hundreds of hours of safe manned and unmanned aircraft operation, Mr. Raymond is certain to satisfy the most demanding clients with his “on-demand” drone services.

Soils in Construction

David Harmanos *P.E. 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.

Additional Learning

The 2021 Minimum Standards for ALTA/NSPS Land Title Surveys

- Thurs, Jan 20, 2022 | 8:30 am 4:30 pm CST

- Wed, Jan 12, 2022 | 8:30 am - 2:30 pm CST

Technical Writing Workshop for Design Professionals

- Wed, Jan 12, 2022 | 8:30 am - 5:00 pm CST

How to Read a Geotechnical Report

- Fri, Jan 14, 2022 | 11:00 am - 2:15 pm CST

Handling Ethical Issues in Construction

- Tues, Jan 18, 2022 | 3:00 - 5:00 pm CST

Metes and Bounds

Land Description Workshop

- Tues, Jan 18, 2022 | 10:00 am - 4:00 pm CST

Timber Frame Design and Construction

- Wed, Jan 19, 2022 | 9:00 am - 4:30 pm CST

Construction Cost Estimating

- Thurs, Jan 20, 2022 | 8:30 am 4:30 pm CST

IRC Significant Changes – Chapters 11-44

- Thurs, Jan 20, 2022 | 11:00 am - 3:30 pm CST

Current Issues for Land Surveyors

- Mon, Jan 24, 2022 | 8:30 am - 3:30 pm CST

Erosion and Sediment Control

- Tues, Jan 25, 2022 | 8:30 am - 5:00 pm CST

Air-Source Heat Pumps, Mini-Splits, and Heat Pump Water Heaters

- Wed, Jan 26, 2022 | 12:00 - 3:30 pm CST

- Thurs, Jan 27, 2022 | 12:00 - 3:30 pm CST

Seismic Design and Construction

- Thurs, Jan 27, 2022 | 8:30 am - 5:00 pm CST

For more information and other online learning opportunities visit: www.halfmoonseminars.org