

Credit Information

Construction Project Management

This webinar offers 4.0 PDHs to professional engineers licensed in all states and 4.0 continuing education hours to architects licensed in states that accept non-HSW coursework.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 5554646), Indiana (License No. CE21655559), Maryland, New Jersey (Approval No. 24GP55555655), North Carolina (S-5135), and North Dakota. 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 4.0 LU | Elective (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .4 CEUs in the specialty area of Administration (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).

Drones in Construction

This webinar offers 6.0 PDHs to professional engineers and 6.0 continuing education hours to architects (not HSW) in all states.

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The American Institute of Architects Continuing Education System has approved this course for 6.0 LU | Elective (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

Completion certificates will be awarded to participants who complete this event, respond to prompts during the presentation, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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**Live, Interactive
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February Construction Webinars

Drones in Construction

- Tuesday, February 2, 2021 | 10:00 am - 4:50 pm CST

Construction Project Management

- Friday, February 12, 2021 | 11:00 am - 3:15 pm CST

**To register, view detailed presenter biographies,
and see other learning opportunities, please visit:**

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HalfMoon Education Online Learning

Live, Interactive Construction Webinars *For Architects, Engineers and more!*



Drones in Construction

Tuesday, February 2, 2021 | 10:00 am - 4:50 pm CST

Credits: Professional Engineers: 6.0 PDHs

Architects: 6.0 CE Hours

AIA: 6.0 LU | Elective

Construction Project Management

Friday, February 12, 2021 | 11:00 am - 3:15 pm CST

Credits: Professional Engineers: 4.0 PDHs

Architects: 4.0 (Non-HSW)

AIA: 4.0 LU | Elective

International Code Council: .4 CEUs (Administration)

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**AIA
Continuing
Education
Provider**

Drones in Construction

Tuesday, February 2, 2021 | 10:00 am - 4:50 pm CST (incl. 30-min. of break)

Tuition: \$289 per registrant, \$199 per registrant for three or more

Credits: Professional Engineers: 6.0 PDHs
Architects: 6.0 CE Hours AIA: 6.0 LU | Elective

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

Presented by

Mark D. Jones, P.E. *Principal, Hartech Engineering & Consulting, LLC*

Mr. Jones, P.E. is president of Hartech Engineering which was founded in 2007 as a multi-discipline civil engineering consulting firm providing infrastructure, development and municipal design services for the public and private sectors. Bringing over 30 years of engineering expertise along with specific state-of-the-art, computer-aided technology to achieve efficient, cost saving design solutions, he also provides hydrology and hydraulic studies and reports along with general civil engineering support for prime consultants to PennDOT or local municipality projects. Mr. Jones is a licensed pilot and studied Military Civil Engineering while serving in the USAF and continues his Masters education locally through Penn State. He is also a registered professional engineer in the states of Pennsylvania, Maryland, Arizona and Georgia.

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Construction Project Management

Friday, February 12, 2021 | 11:00 am - 3:15 pm CST (incl. 15-min. break)

Tuition: \$199 per registrant, \$149 per registrant for three or more

Credits: Professional Engineers: 4.0 PDHs
Architects: 4.0 (Non-HSW) AIA: 4.0 LU | Elective
International Code Council: .4 CEUs (Administration)

Construction Players, Stages of a Project

Construction entities, organizational structure
Public vs. private Unions Project types
Project lifecycle Construction technology

Real Estate, Feasibility, Design Professional & Contractor Selection, Programming

Due diligence, code research
Project delivery type Source selection
Design process, A/E, scope of work and fee structure
Cost control / value engineering
Sustainability (green)

Drawings, Specifications, Contracts, Bidding, Pre-Construction, Mobilization

Work breakdown structure, bid package
Types of contracts General and supplemental conditions
Liens Bonds and insurance
Buyout, subcontracts

Scheduling

Gantt, bar charts Critical path method (CPM)
Miscellaneous. schedule topics – liquidated damages, schedule “crashing”

Construction Phase

Claims, dispute resolution Change orders Schedule of values, pay applications
Equipment Labor issues Materials Project closeout

Summary

Summary – scope, time, cost, quality, HR, communications, risk, procurement

Presented by

Mike Keating, PE, MBA has been in the construction industry for over 29 years in various capacities including estimator/cost engineer, project manager, construction manager, director of construction, and A/E construction administrator to name a few. He has been involved in both commercial and residential construction projects both in the public and private sectors with several individual projects exceeding \$100 million in construction value. He currently works for the U.S. Army Corps of Engineers as a cost engineer and value engineering officer on large military, civil works, and inter-agency developments. In addition, he teaches a class in Construction Engineering as an adjunct instructor at the University of South Alabama, Department of Civil, Coastal, and Environmental Engineering.

Mr. Keating grew up in Omaha, Nebraska, and holds a bachelorof science degree in Construction Management from the University of Nebraska. In addition, he received his MBA degree from the University of West Florida in 2004. He is a licensed professional engineer (PE) in the State of Virginia and a certified general contractor (CGC) in the State of Florida, and he holds several other industry certifications including certified cost engineer (CCE), value management associate (VMA), certified professional estimator (CPE), and certified construction contract administrator (CCCA).

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Additional Learning

Structural Forensic Engineering

- Wed., Jan. 13, 2021 | 10:00 am - 1:45 pm CST
- Thurs., Jan. 14, 2021 | 10:00 am - 1:45 pm CST

Practical Site Engineering: Science & Techniques

- Thurs., Jan. 14, 2021 | 11:00 am - 3:15 pm CST
- Fri., Jan. 15, 2021 | 11:00 am - 2:15 pm CST

Commercial Provisions of the IECC

- Thurs., Jan. 14, 2021 | 11:00 am - 3:30 pm CST
- Fri., Jan. 15, 2021 | 11:00 am - 2:00 pm CST

Slab-on-Grade Concrete and Pavement for Private Facilities

- Tues., Jan. 19, 2021 | 11:00 am - 2:45 pm CST
- Wed., Jan. 20, 2021 | 11:00 am - 2:45 pm CST

High-Performance Building Envelopes: Designing for Energy Efficiency and Durability

- Wed., Jan. 20, 2021 | 11:00 am - 2:45 pm CST
- Thurs., Jan. 21, 2021 | 11:00 am - 2:45 pm CST

Complying with Fire Protection and Building Codes

- Fri., Jan. 22, 2021 | 8:30 am - 5:00 pm CST

Engineered Lumber Design and Construction

- Fri., Jan. 22, 2021 | 8:30 am - 5:00 pm CST

Structural Design Loads under the ASCE 7 Standard

- Fri., Jan. 22, 2021 | 8:30 am - 5:00 pm CST

Soil Mechanics, Bearing Capacity, and Slope Stabilization

- Mon., Jan. 25, 2021 | 8:30 am - 4:30 pm CST

Metes and Bounds Land Description Workshop

- Mon., Jan. 25, 2021 | 10:00 am - 4:00 pm CST

Designing for Accessibility under ADA Standards and the IBC

- Mon., Jan. 25, 2021 | 11:00 am - 2:45 pm CST
- Tues., Jan. 26, 2021 | 11:00 am - 2:45 pm CST

Project Management Fundamentals for Engineers

- Tues., Jan. 26, 2021 | 8:30 am - 4:00 pm CST

International Building Code 2021

- Tues., Jan. 26, 2021 | 10:00 am - 2:30 pm CST
- Wed., Jan. 27, 2021 | 10:00 am - 1:30 pm CST

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