

Credit Information

Drones in Construction

This webinar offers 6.0 PDHs to professional engineers in all states and 6.0 continuing education hours to architects in states that allow non-HSW coursework.

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), North Carolina (S-0130), 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 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 and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Preventing and Addressing Construction Defects and Failures

This webinar offers 7.0 PDHs to professional engineers, including 1.0 ethics hour, and 7.0 HSW continuing education hours to 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 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 all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Live, Interactive Construction Webinars

- Drones in Construction
- Preventing and Addressing Construction Defects and Failures



HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

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Construction Webinars

Drones in Construction

- Monday, March 22, 2021 | 10:00 am - 4:50 pm CDT

Preventing and Addressing Construction Defects and Failures

- Tuesday, March 23, 2021 | 11:00 am - 2:15 pm CDT
- Wednesday, March 24, 2021 | 11:00 am - 3:15 pm CDT

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



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Architects: 6.0 CE Hours (non-HSW) AIA: 6.0 LU| Elective

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

International Code Council: .7 CEUs (Building)

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**AIA
Continuing
Education
Provider**

Drones in Construction

Monday, March 22, 2021 | 10:00 am - 4:50 pm CDT (incl. a 30-min. break)

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

Credits: Professional Engineers: 6.0 PDHs Architects: 6.0 CE Hours (non-HSW)
AIA: 6.0 LU | Elective

Presented by Mark D. Jones

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 each webinar are available for purchase. See course listing online 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.

Preventing and Addressing Construction Defects and Failures

Tuesday, March 23 and Wednesday, March 24, 2021

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Credits: Professional Engineers: 7.0 PDHs, including 1.0 Ethics Hour
Architects: 7.0 HSW CE Hours AIA: 7.0 LU | HSW
International Code Council: .7 CEUs (Building)

Presented by Collins Ofori-Amanfo, P.E.

Day One: Tuesday, March 23, 2021

11:00 am - 2:15 pm CDT (incl. a 15-min. break)

Distinguishing Between Construction Defects and Failures

Defining defects

Categorizing defects

Defining failures

Categorizing failures

Causes and consequences of structural failures

An overview of statutes of limitation and repose in construction defect lawsuits

Examining Common Defects and Failures

Procedures for examining/analyzing defects and failures

Examining structural defects and failures

- Steel structures
- Reinforced/prestressed concrete structures
- Masonry and building façade

Case studies

- Failure of a major bridge, wood frame structures, stressed concrete parking garage

Regional scales

Day Two: Wednesday, March 24, 2021

11:00 am - 3:15 pm CDT (incl. a 15-min. break)

Adopting Practices that Reduce Defects and Failures

Sources of construction claims

Quality control measures

Façade problems

Movement joints

Window problems

Wall problems

Roof problems

Foundation problems

Resolving Disputes Generated by Defects and Failures

Causes and consequences of structural failures

Legal and economic impacts of failures

Identifying parties with potential liability

Defining actions that result in claims

Understanding legal theories of liability

Dispute resolution services

The role of the forensic engineer in mediation, arbitration and litigation

Trial and arbitration testimony

Handling Ethical Issues Associated with Defects and Failures

Importance of ethics on the project

Rules of professional conduct

Behaviors that can be viewed as unethical

Behaviors that can be viewed as ethical

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Faculty

Drones in Construction

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. Additionally, he is also a registered professional engineer in the states of Pennsylvania, Maryland, Arizona and Georgia.

Preventing and Addressing Construction Defects and Failures

Collins Ofori-Amanfo, P.E. *Owner and Principal Engineer at Collins Forensics LLC*

Mr. Collins O.Y. Ofori-Amanfo, P.E., is a Board Certified Diplomate Forensic Engineer and is the owner and principal engineer of Collins Forensics LLC. Prior to establishing Collins Forensics LLC, Mr. Ofori-Amanfo previously worked for many years at Wiss, Janney, Elstner Associates, Inc. (WJE), Illinois Department of Transportation and Twin City Testing Corporation. He received his B.S. degree in Civil Engineering from the University of Science and Technology in Ghana and his M.S. degree in Structural Engineering from the University of Minnesota, Minneapolis. Mr. Ofori-Amanfo is a registered professional engineer in Minnesota, Wisconsin, Iowa, North Dakota, Nebraska and Illinois. His broad-based experience includes investigation of collapsed/failing structures, investigation of construction defects and resulting damage, investigation of condensation in building envelopes, evaluation of roof and wall leakage, field water testing of windows and waterproofing systems, and assessment of wind and hail damage to buildings. His work also involves giving expert testimony and assisting attorneys in resolving disputes over construction and materials-related problems. Mr. Ofori-Amanfo has been an instructor at HalfMoon Education, Inc.'s Structural Forensic Engineering Continuing Education Seminars in Kentucky, North Carolina, North Dakota, South Dakota, Minnesota, Texas, Iowa and Nebraska.

Additional Learning

International Existing Building Code

- Mon., Feb. 22, 2021 | 8:30 am - 5:00 pm CST

Passive House: Planning and Design

- Tues., Feb. 23, 2021 | 8:30 am - 4:30 pm CST

Deep Foundations and Excavations

- Tues., Feb. 23, 2021 | 9:00 am - 5:00 pm CST

Stormwater Basins and Underground Systems

- Tues., Feb. 23, 2021 | 9:00 am - 4:30 pm CST

Complying with Fire Protection & Building Codes

- Thurs., Feb. 25, 2021 | 8:00 am - 4:00 pm CST

Construction Scheduling and Cost Control

- Thurs., Feb. 25, 2021 | 9:30 am - 2:00 pm CST

- Fri., Feb. 26, 2021 | 9:30 am - 2:00 pm CSTT

International Building Code 2021

- Fri., Feb. 26, 2021 | 9:00 am - 5:00 pm CST

Deep Excavations

- Thurs., Mar. 4, 2021 | 8:30 am - 4:30 pm CST

Parking Structure Design, Construction and Maintenance

- Thurs., Mar. 11, 2021 | 8:30 am - 4:30 pm CST

SketchUp for Building Professionals

- Thurs., Mar. 11, 2021 | 11:00 am - 2:45 pm CST

- Fri., Mar. 12, 2021 | 11:00 am - 2:45 pm CST

2021 International Residential Code: Residential Structural Design

- Fri., Mar. 12, 2021, 11:00 am - 3:30 pm CST

For more information and other online learning opportunities visit:
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