

Agenda

Presented by Chuck Adams

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

- Area and topographic mapping, calculating cut-and-fill
- Software and processes
- Process
- Data analysis and applications

Using UAS to Monitor Progress and Quality

- Monitoring construction progress
- Quality control
- Software and processes

Using UAS to Monitor Safety and Security

- Using UAS to modify safety of construction personnel, visitors and the public
- Using UAS to maintain site security
- Software and processes

**Post-Construction:
Using UAS to Conduct Periodic Structural Inspections**

- High-risk inspections
- UAS inspection capabilities
- Software and processes

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Using Drones in Construction

Live, Interactive Webinar - Thursday, May 30, 2024

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



Learning Objectives

You'll be able to:

- Explore** uses for Unmanned Aircraft Systems (UAS) in construction, including mapping, site reconnaissance, and improved safety.
- Review** Federal and state regulation of drones and discuss potential liability risks.
- Examine** construction site mapping software.
- Use** UAS to monitor construction progress and improve quality control.
- Explore** UAS post-construction inspection capabilities.



HalfMoon Education Inc.,
Your LIVE Education Leader Presents

Using Drones in Construction

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|---|---|
| Examine the roles of Unmanned Aircraft Systems (UAS) in construction | Use UAS to monitor construction progress and maintain safety and quality |
| Understand UAS regulation, risk, and liability | Use UAS to conduct periodic structural inspections |
| Learn about construction site mapping with UAS | |

Continuing Education Credits

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



Webinar Information

Online - Thursday, May 30, 2024

Log into Webinar 8:00 - 8:30 am CDT	Break 12:30 - 1:00 pm CDT
Morning Session 8:30 am - 12:30 pm CDT	Afternoon Session 1:00 - 4:00 pm CDT

Tuition
\$339 for individual registration.
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Faculty



Chuck Adams is CEO of 1UP Aerial Drone Service, which sells drones and sensors, and provides expert consultation and aerial services to a range of industries, including engineering, commercial real estate, land development, construction, insurance, forensic science, and surveying. Mr. Adams is an FAA Part 107 certified pilot, and a tenured information technology and cloud industry veteran who has spent more than 25 years in the high-tech industry: the last seven in UAS, AI, and machine learning.

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers, 6.5 non-HSW continuing education hours for licensed architects, and 6.5 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. 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 6.5 Elective (non-HSW) LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

This course does not provide HSW credits for architects via the AIA and therefore may not be appropriate for architects in states which require HSW coursework.

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

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
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 LUs (AIA), 6.0 HSW PDHs (LA CES)

Additional Learning

Engineering Projects from Start to Finish
- Monday, May 6, 2024 | 8:30 am - 4:30 pm CDT

Introduction to Residential Greywater Systems: Recapturing Wastewater to Use a Second Time
- Tuesday, May 7, 2024 | 10:00 am - 12:00 pm CDT

Urban Bikeway Design and Construction
- Tuesday, May 7, 2024 | 9:00 am - 12:15 pm CDT
- Tuesday May 14, 2024 | 9:00 am - 12:15 pm CDT

Construction Cost Estimating
- Wednesday, May 8, 2024 | 9:00 am - 4:30 pm CDT

FEMA Floodplain Letters of Map Change Explained
- Wednesday, May 8, 2024 | 9:00 am - 1:30 pm CDT

Handling Ethical Issues in Construction Contracting
- Wednesday, May 8, 2024 | 9:00 - 10:00 am CDT

Hydrology and Hydraulics for Municipal Stormwater Engineering
- Thursday, May 9, 2024 | 9:00 am - 4:30 pm CDT

2021 International Building Code Essentials
- Friday, May 10, 2024 | 8:30 am - 4:30 pm CDT

Urban Stormwater Management System Design and Construction
- Friday, May 10, 2024 | 8:30 am - 4:30 pm CDT

Protecting Tree Diversity
- Friday, May 10, 2024 | 1:00 - 4:00 pm CDT

Building Electrical System Design Based on NEC 2023
- Monday, May 13, 2024 | 12:00 - 2:00 pm CDT

Temporary Construction Site Erosion and Sediment Control BMPs
- Monday, May 13, 2024 | 9:00 am - 4:00 pm CDT

Techniques to Promote Groundwater Conservation
- Monday, May 13, 2024 | 9:00 am - 4:30 pm CDT

Building Power System Grounding and Bonding Based on NEC 2023
- Monday, May 20, 2024 | 12:00 - 2:00 pm CDT

Construction Contract Workshop
- Monday, May 20, 2024 | 8:30 am - 5:00 pm CDT

Determining Means of Egress Compliance Using the 2021 IBC
- Monday, May 20, 2024 | 8:30 am - 4:00 pm CDT

Wetland Preservation, Restoration, Creation and Enhancement
- Tuesday, May 21, 2024 | 10:00 am - 12:00 pm CDT

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