Aerial Mapping: Technologies and Procedures
Online - Tues., October 27 and Wed., October 28, 2020

Discuss the use of unmanned aircraft systems (UAS), or drones, for general aerial photography, terrain modeling, 3D models, LiDAR and GIS dataset acquisition.

Explore procedures for UAS photogrammetry.

Learn about areas of study for the FAA knowledge test.

Review commercial software applications, including Pix4D, DroneDeploy and AutoDesk.

Examine FAA commercial UAS regulations.

You’ll be able to:

Explore unmanned aircraft system (UAS), or drone, platforms.

Discuss the use of UAS for aerial photography, ortho-photos, terrain modeling, 3-D, LiDAR and GIS data set acquisition.

Examine UAS photogrammetry principles and procedures.

Review commercial software, including Pix4D, DroneDeploy and AutoDesk.

Identify FAA UAS regulations and get an overview on the FAA Part 107 knowledge test.

Aerial Mapping: Technologies and Procedures Day One
Tuesday, October 27, 2020 | 8:30 am - 12:00 pm CDT (including a 15-min. break)

Aerial Mapping Program Overview
UAS-Drone Platforms
Types of UAS/sUAS platforms
Uses of drone technology
Cameras
UAS Costs
UAS Mapping Principles
General aerial photography
Ortho photos
Photogrammetry
3D models
Terrain modeling
LiDAR point clouds and scanning
GIS dataset acquisition

History and Development of the UAS Platforms
UAS Photogrammetry-Principles and Procedures
Photogrammetry basics
GPS and coordinate systems
Data georeferencing
Survey control
Data acquisition
Post processing and adjustments

Aerial Mapping: Technologies and Procedures Day Two
Wednesday, October 28, 2020 | 8:30 am - 12:15 pm CDT (including a 15-min. break)

Post Processing - Software Applications
Basic data requirements
Computer hardware
Commercial software applications
• Pix4D
• Drone Deploy
• AutoDesk
• Others

Demonstration of Small Photogrammetry Project
Live demonstration of a small project using Pix4D

FAA Commercial UAS Regulations
Commercial use activities
FAA Part 107 licensing requirements
Flight regulations for UAS
Airspace restrictions

FAA Knowledge Test - General Overview
 Primer on the FAA Part 107 knowledge test
Knowledge test areas of study
Do I need to be a pilot?
General do’s and don’ts of UAS operations
Commercial operator liability considerations
Here’s what past attendees had to say about the program and presenter Mark Jones:

“Loved the seminar! — CAD Designer
“Very informative is useful course for mapping with drones. Covers basics to mission accomplishment.” — Land Surveyor and Professional Engineer

“Mark is very knowledgeable of material he presented. He also had a very good delivery & ability to teach. Very informative & useful course for mapping with drones. Covers basics to mission accomplishment.”

“Loved the seminar!”

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 transportation, 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 the public and private sectors. He 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.

Professional qualifications of Mark D. Jones:
- P.E., Principal, Hartech Engineering & Consulting, LLC
- Professional Engineer in the states of Pennsylvania, Maryland, Arizona and Georgia.
- Licensed in the states of Pennsylvania, Maryland, Arizona and Georgia.

Mark D. Jones is also a registered professional engineer in the states of Pennsylvania, Maryland, Arizona and Georgia.

Continuing Education Credit Information

This interactive webinar offers 6.5 PDHs/continuing education hours to professional engineers licensed in all states, and 6.5 PDCs to land surveyors licensed in all states, except those in Florida, Kansas, New Jersey, Tennessee, and Texas.

HalfMoon Education is an approved continuing education sponsor for engineers and land surveyors licensed in all states, except those in Florida, Kansas, New Jersey, Tennessee, and Texas.

HalfMoon Education is an approved continuing education provider for engineers and land surveyors licensed in New York via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69-1.5(i)(2)).

HalfMoon Education is deemed an approved continuing education provider for land surveyors licensed in Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 2N0G000000700), North Carolina (S-0130), and North Dakota.

The Association of State Floodplain Managers has approved this course for 6.5 CECS for certified floodplain managers.

Course completion certificates will be awarded to participants who complete the webinar in its entirety, respond to all the verification prompts during the instruction, and earn a score of 80% or higher on the final exam following the instruction.

Registration Information

FullMoon Education is deemed an approved continuing education provider for engineers and land surveyors licensed in all states, and 6.5 PDHs to land surveyors licensed in all states, except those in Florida, Kansas, New Jersey, Tennessee, and Texas.

How to Register

Online: www.halfmoonseminars.org

Live, Interactive Webinar - Tuesday, October 27, 2020 and Wednesday, October 28, 2020

Aerial Mapping: Technologies and Procedures

Online:

54720-0278
PO Box 278, Altoona, WI

HalfMoon Education Inc.

715-835-6066
Fax: 715-835-5900

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Recordings of this webinar are available for purchase. See registration panel 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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| Streamable MP4 Video/PDF Manual for $279.00 |
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Webinar Information

Day One: Tuesday, October 27, 2020
8:30 am - 12:00 pm CDT (including a 15-min. break)

Day Two: Wednesday, October 28, 2020
8:30 am - 12:15 pm CDT (including a 15-min. break)

Please log into the webinar 15 - 30 minutes before start time

Continuing Education Credit Information

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