The Usefulness of Drones for Civil Engineers and Land Surveyors

Online – Thursday, July 27, 2023 | 9:00 am – 4:00 pm CDT

Credits:
Engineers: 6.0 PDHs*

Land Surveyors: 6.0 PDHs*

*no credit for NY engineers or surveyors

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Development of Drones as an Engineering and Land Surveying Tool
- History of drones
- Development of drone technology and features
- Engineering and land surveying uses—current and anticipated

Use of Drones for Mapping and Modeling
- Use of drones for photogrammetric surveying
- Use of LiDAR for modeling
- Equipment and software
- Interpreting and using data

Use of Drones for Site Assessment and Monitoring During Construction
- Use of drones to assess construction sites
- Use of drones to develop site plans
- Use of drones to monitor construction progress, site safety and quality control

Use of Drones to Inspect and Maintain Buildings and Infrastructure
- Use of drones in dangerous and/or difficult or expensive inspection scenarios
- Inspecting condition of built elements
- Infrastructure/component inspection examples

Use of Drones to Inspect Condition/Operation of Machinery and Equipment
- Electric utility equipment
- Pipeline infrastructure
- Water supply and wastewater equipment
- Industrial equipment

Complying with Federal, State and Local Laws and Regulations

Presented by Chuck Adams
CEO, 1UP Aerial Drone Services, headquartered in Golden, CO
Mr. 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.

Tuition

$319 for individual registration
$289 for two or more registrants from the same company at the same time.

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