UAS LAW ENFORCEMENT TRAINING

Course Schedule - time reflects 1 on 1 instruction

Day 1

Learning Objectives:
Students will become familiar with their UAS platform while developing basic UAS controllability skills by performing basic, intermediate and advanced flight maneuvers using both right and left sticks. Students will be introduced to crew/ single pilot resource management. Students will be introduced to techniques in photogrammetry using a UAS for accident scene reconstruction.

9:00 AM	Ground- (PowerPoint) Part 107 highlights Aircraft/personal documents Aircraft safety Aircraft systems UAS system app overview
11:00 AM	Lunch provided
12:00 PM	Travel to location/ Set up
1:00 PM	EP 1 (2 batteries per student)- Basic/intermediate/advanced maneuvers over cones
2:00 PM	EP 2 (1 battery per student)- Basic/intermediate/advanced maneuvers over cones
2:00 PM	EP 3 Solo (1 battery per student)
2:30 PM	EP 4 NIST Buckets Single Pilot- Wood Stands (battery 1) Crew Resource Management- Bucket Trees (battery 2)
3:30 PM	Ground Photogrammetry tools for accident scene operations Mission planning overview
4:30 PM	SAR Discussion Autonomous, tactical search walkthroughs
5:00 PM	Pack, Travel to H600, Adjourn

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Day 2

Learning Objectives:

Students will continue to develop their basic, intermediate and advanced flight maneuvers learned from the previous day's lessons. Students will be introduced to crew/ single pilot resource management. Students will become familiar with various software apps to assist in the reconstruction process while continuing to develop single/ crew resource management and good aeronautical decision-making skills. Students will operate for SAR exercises during daylight operations, becoming familiar with search patterns and sensor manipulation to identify their targets. The knowledge obtained over the previous lessons will culminate in the final scenario/event. Students will become familiar with night flight physiology and overcoming visual illusions during night operations.

1:30 PM	Travel to Location / Setup
2:00 PM	Accident Scene Reconstruction Flights-
	Accident scene photogrammetry
	Station rotation- 3D Orbit, 2D grid, 2D double grid
3:00 PM	SAR/ROS Flights
	Two flights per person
4:00 PM	EP 5 (2 batteries)-
	Manual search for targets
5:00 PM	Culminating Event (2 batteries)-
	Instructor-provided scenario
6:00 PM	Dinner (provided)
	Part 107 vs Public operations, SGI process (during dinner)
	Thermal sensor overview
8:30 PM	Night EP (one battery)
9:00 PM	SAR Night (Two batteries)
10:00 PM	Pack, Travel to H600, Adjourn