sUAS Proctor Training Course | ADVANCED

Based on the NIST sUAS Test Methods

DATES: 3-5 April 2023

LOCATION: Omaha Police Department | Mobile Technology
Omaha Public Safety Training Center
11616 Rainwood Road, Omaha, NE 68142

COST: $575.00

REGISTRATION: Airborne Public Safety Association | P (301) 631-2406
Web Site: https://publicsafetyaviation.org/2023-on-the-road-suas-proctor-training-course-advanced-confined-omaha-ne

COURSE DESCRIPTION: 24 hours of classroom and hands-on flight instruction covering the Open and Obstructed Test Lanes of the National Institute of Standards and Technology (NIST) sUAS Test Methods. The NIST sUAS Test Methods are an excellent way to add a sUAS pilot flight skills credentialing component to your sUAS program. NIST has created a comprehensive user guide, scoring forms and apparatus targets that can be printed and placed in the test apparatus buckets. Flights are conducted during day and night trials using the drone interface only, as if flying from beyond visual line of sight (BVLOS) to focus on the Payload Functionality variant of the tests. Attendees will learn how to conduct trials and embed them into their own training and credentialing programs.

The Open Test Lanes evaluates 5 different flight paths (Position, Traverse, Orbit, Inspect, Recon) to identify objects from safe altitudes in open environments. These tests are scalable for all sizes of aircraft to demonstrate positive control at all times with accurate perches. They can be performed outdoors or indoors to control lighting and weather. The smallest size lane fits on an indoor basketball or tennis court for small drones and/or novice pilots to practice safely without flying in the national airspace.

The Obstructed Test Lanes enable remote pilots to fly safe and repeatable flight paths to inspect objects within close proximity to obstructions. They include a comprehensive set of 5 different tests with increasing difficulty (Perch, Wall, Ground, Alley, Post) that guide remote pilots through a series of 10 positions, orientations, and perches within both the standard test lanes and the operational scenarios embedded with scoring tasks. All tests and scenarios result in quantitative scores up to 100 points maximum to facilitate measurement, tracking, and comparison across different aircraft and/or remote pilots. They can be performed outdoors or indoors to control lighting, weather, and access to the Global Positioning System (GPS).

These NIST test methods have been, or are, under consideration for adoption by ASTM International, National Fire Protection Association, Airborne Public Safety Accreditation Commission, Civil Air Patrol and many other Federal, State and local public safety organizations.

Attendees shall have their Part 107 license and must be experienced sUAS pilots who want to hone their skills, evaluate sensor systems and/or have a desire to train and evaluate other sUAS pilots. Ideally, they will have previously completed the APSA NIST Basic sUAS Test Methods Proctor Course. Attendees must bring their own quadcopter style sUAS, capable of at least 15 minutes of flight time, equipped with a camera and anti-collision lighting. Additional sUAS batteries and a battery charging station are also required. Self-contained illumination mounted on the drone (LumeCube or similar), and a laptop computer are highly recommended.

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Successful completion of this course will provide you with:

- NIST Open Test Lane Proficiency Evaluation for Remote Pilots Certificate
- NIST Obstructed Test Lane Proficiency Evaluation for Remote Pilots Certificate
- NIST Advanced Proctor Course Certificate of Completion. This will allow you to serve as a proctor for the Open and Obstructed Test Lane evaluations.

Prerequisites from the FAA Safety Team website (www.faasafety.gov/):

- ALC-716 sUAS/NIST Measuring Capabilities and Remote Pilot Proficiency
- ALC-723: 10 Decision Making Concepts for UAS Pilots
- ALC-704: sUAS Crew Resource Management
- ALC-703 sUAS Night Operations Best Practices

Bring To the Course:

- Commercial drone (<10lbs) with anti-collision lighting. Onboard lighting is highly recommended as are thermal imagers.
- Knowledge of your zoom and contrast controls, grid lines, unlocked gimbal to look upward as much as possible.
- Enough batteries and chargers to support nearly continuous flying for 4-hour shifts.
- An active Gmail account so you can receive automatic email confirmations for scores submitted online.
- All weather clothing for mostly outdoor operations.
- Meals will be brought on site ($15 per person) to encourage networking and allow extra time for questions. Bring your own lunch or dinner each day if you have any dietary restrictions.

NOTE: *All attendees must be registered and paid in full to attend this course.*