



**Class One
Systems**

Actionable
Engineering
Intelligence

UAV TRAINING COURSES GUIDE



Information on our offering to our primary business groups.

This booklet provides information about our courses on UAV flight training.

Introduction

Our business sector grouping groups our UAV Flight Training. Our programmes are designed to enable each group to enhance their ability to operate effectively, safely, and within guidelines specific to that group's objective.

Enterprise

Training equips professionals with advanced skills for applications like aerial photography and effective payload management. It also ensures that operators understand the legal requirements to operate a UAV in the Caribbean area.

Hobbyists

Training helps enthusiasts understand basic UAV flight controls, safety protocols, and local regulations and can empower them to explore creative uses, such as capturing aerial footage, as they become responsible participants in the Caribbean UAV ecosystem.

Students

Our company supports STEM development, which includes UAVS, encouraging hands-on learning. Here, students can gain a competitive edge by acquiring UAV expertise, which its every ever-increasing demand across industries.

Training Focus

	Enterprise	Hobbyist	Students
Basic operations	<ul style="list-style-type: none"> Basic controls, flight safety and operational checklists. Training in flight controls and precision handling is applicable for the Enterprise use case. 	<ul style="list-style-type: none"> Basic controls, flight safety and operational checklists. Exploring flight control handling for hobbyists. 	Fun and interactive sessions on operating drones, focusing on safety and ease of use for beginners.
Advanced maneuvering	<ul style="list-style-type: none"> Scenario-based training for tasks like aerial inspections, mapping, and more. Techniques for creative aerial shots and videography. UAV flights in different environments. 	<ul style="list-style-type: none"> Techniques for creative aerial shots and videography. UAV flights in different environments. 	Advanced workshops with student-friendly scenarios, like filming school events or scientific experiments.
Regulatory compliance	<ul style="list-style-type: none"> Overview of UAV laws, safe areas to fly, and key restrictions for Enterprise users. Exploring national UAV regulations, safety protocols, and licensing requirements. 	<ul style="list-style-type: none"> Overview of UAV laws, safe areas to fly, and key restrictions for recreational users. Exploring national UAV regulations, safety protocols, and licensing requirements. 	Easy-to-understand drone regulations, emphasizing student projects and safe flying practices.
Maintenance and troubleshooting	<ul style="list-style-type: none"> Understanding UAV hardware and software troubleshooting. Guidance on basic UAV maintenance, such as battery care and propeller replacement. 	<ul style="list-style-type: none"> Understanding UAV hardware and software troubleshooting. Guidance on basic UAV maintenance, such as battery care and propeller replacement. 	Practical sessions on keeping UAVs in top shape, covering basics like charging and storage.
Industry applications	<ul style="list-style-type: none"> Custom-tailored programs for industries like inspection and/or security. UAV Enterprise payloads. 		Career-oriented emphasis on UAV use in cinematography, rescue and research
Emergency procedures	<ul style="list-style-type: none"> Training on mid-flight troubleshooting and emergency landings. Handling unexpected issues like signal loss or battery failure during high-impact flights. 	<ul style="list-style-type: none"> Training on mid-flight troubleshooting and emergency landings. Handling unexpected issues like signal loss or battery failure during recreational flights. 	Simple drills on what to do when a drone malfunctions or encounters flight problems.
Data analysis and processing	Training in analysing data from UAVS, including imaging, mapping, and 3D modelling, using industry-standard software.	UAV imagery and editing tools for recreational photo and video captures.	Lessons on processing drone-captured images or videos for educational projects or science fairs.

Course Outline

Target audience

ENTERPRISE Basic & plus	HOBBYISTS Frontier Basic & Plus	STUDENTS Edu Standard & Solo
<p>Professionals seeking to enhance their UAV operation skills for Enterprise applications such as inspections, surveillance, and mapping. Designed for businesses aiming to integrate UAVs into their operational workflows.</p>	<p>Enthusiasts passionate about recreational flying, aerial photography and videography and individuals who want to deepen their understanding of UAV technology.</p>	<p>Students interested in UAVS as part of educational projects or future career opportunities in technology, aviation, or media. Beginners with no prior drone flying experience aiming to explore UAV flight for personal development.</p>

Overview

This program provides a comprehensive overview of UAV flight operations, tailored to the specific needs of enterprise users, hobbyists, and students. The course focuses on safe and legal drone operation, offering practical skills and theoretical knowledge to match the goals of each group. Simulations and real-world scenarios are included to build confidence and competence for professional, recreational and educational applications.

Objectives

<p>Understand UAV regulations for commercial use. Optimize UAV operations for Enterprise applications and master advanced flights for professional missions.</p>	<p>Develop proficiency and gain confidence in recreational UAV operations. Capture high-quality images and videos using onboard cameras.</p>	<p>Learn the basics of UAV operations. Understand simple missions. Explore UAV technology as a potential career or academic path.</p>
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Course Outline

Outcomes		
Enterprise users will demonstrate mastery in UAV operations for diverse Enterprise scenarios, passing evaluations with real-world applications.	Hobbyists will be exposed and develop confidence in navigating UAVs recreationally and capturing media.	Students will understand foundational concepts and show competence in basic UAV flight and navigation, preparing them for further learning.
Instructional format		
<ul style="list-style-type: none"> • Flight simulator(s) with UAV Controllers • UAVs for assigned NIST flight exercises. • Execution of specialized missions (e.g., power grid inspection, logistics) 	<ul style="list-style-type: none"> • Flight simulator(s) with UAV Controller • UAVs for assigned NIST media capture exercises. • Execution of specialized missions (e.g., city scape photography) 	<ul style="list-style-type: none"> • Flight Simulator with UAV Controller • Basic UAV flights with controller/mobile phone for introductory flights • Basic UAV technical skills for academic exploration
Duration		
Enterprise Basic - 6 hours Enterprise Plus - 9 hours	Frontier Basic - 6 hours Frontier Plus - 7.5 hours	Edu Standard - Club hours Edu Solo - 3.5 hours
Nine hours is covered over two days		

Participants in all groups will earn a certificate upon successful completion, recognising their level of competency in UAV flight operations tailored to their specific audience.

Course Content

Covered in all groups & levels

Legal & ethical considerations

- Regulatory compliance and laws about drones in training jurisdiction, registration, and licensing requirements.
- Types/classification of drones and their applications.
- Regulatory compliance and laws about drones in training jurisdiction, registration, and licensing requirements.

Weather systems impact & flight dynamics

- Basic principles of weather
- Weather impact on flight
- Basic principles of Thermodynamics

UAV flight preparation & flying

- UAVs orientation, setting-up guides
- Awareness guides and preflight & postflight checklists
- Flight strategies and decision-making
- Emergency response and safety, the importance of flight planning and navigation.

ENTERPRISE

Enterprise Basic
& **Enterprise** Plus

- Basic flight skills
- Advanced flight skills
- Camera operation
- Hovering - all levels
- Flight Route - four (4) levels
- **Basic level** - Two (2) utility flights
- **Plus level** - Four (4) utility flights

HOBBYISTS

Frontier Basic
& **Frontier** Plus

- Basic flight skills
- Advanced flight skills
- Camera operation
- Hovering - all levels
- Flight route - 3 levels
- **Frontier Basic** - One (1) utility flights
- **Frontier Plus** - Three (3) utility flights

STUDENTS

Edu Standard
& **Edu** Solo

- Basic flight skills
- Advanced flight skills
- Camera operation
- Hovering - all levels
- Flight route - 3 levels
- **Edu Standard** - One (1) free flight
- **Edu Solo** - Two (2) utility flight

Course Assessment

Assessments

- Online/paper-based quiz comprising 15-20 questions for both **Enterprise** and **Hobbyist** groups as well as **Edu Solo** student level only.
- UAV flight evaluation using NIST standard activities.

Summary

The Class One Systems UAV training program is designed to equip participants with the necessary skills, knowledge, and certifications to operate drones safely and efficiently. Our course content offers an introductory understanding to the world of UAV flight.

Training Hours

Boost your confidence, refine your techniques, and gain more expertise with extra flight training hours. If you are looking to master precision flying, additional flight hours ensure you're always a step ahead. Invest in yourself, because every hour in the air brings you closer to perfection. [Follow this link to book hours.](#)

Certificate

