



**PIPER MEMORIAL AIRPORT
353 PROCTOR STREET
LOCK HAVEN PA 17745**

Unmanned Aircraft System Remote Pilot In Command Training Syllabus

Course Rationale

Commercial unmanned aircraft systems (commonly known as drones) represent the next major growth area for General Aviation. Whereas the early 20th Century ushered in the Air Age, and the mid 20th Century represented the start of the Space Age, one could call the early 21st Century the beginning of the Drone Age.

The unmanned aircraft systems industry is currently in its infancy, with commercial interests just beginning to discover the wealth of applications which can be fulfilled with these small, inexpensive, and very capable remotely piloted vehicles. This course will prepare you to get involved on the ground floor of what promises to be aviation's next Great Frontier.

Areas of Emphasis

- FAA authority over unmanned aircraft
- Unmanned aircraft system registration
- Safety considerations
- Model aircraft operations
- Commercial drone operations
- Commercial drone operator training & certification
- Crew resource management

Prerequisites

To enroll in the AvSport UAS Remote PIC course, you must be:

- 16 years of age or greater
- a US citizen or permanent resident
- able to read, write, speak, and understand the English language
- in a physical and mental condition that would not interfere with safe sUAS operation

Objectives

Upon successful completion of this course, you will:

- Understand the terms UAS, UAV, RPV and Drone
- Comply with the provisions of 14 CFR Parts 48 and 107
- Follow the Small UAS registration regulations
- Be ready to obtain a Remote PIC certificate with a Small UAS rating
- Integrate your drone safely into the airspace
- Distinguish between hobby and commercial operations
- Know Before You Fly!



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Airman Certification Standards Topics

Federal Aviation Regulations

- General
- Operating Rules
- Pilot Certification
- Waivers

Airspace

- Classification
- Operational Requirements

Weather

- Sources of Weather Information
- Effects on Performance

Loading and Performance

Operations

- Radio Communications
- Airport Operations
- Emergency Procedures
- Aeronautical Decision-Making
- Physiology
- Maintenance and Inspection Procedures



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Curriculum

Day 1:

- Lesson 0 - Course introduction (ground - 1/2 hour)
- Lesson 1 - UAS Aircraft Registration (ground - 1 hour)
- Lesson 2 - Licensing of UAS Pilots (ground - 1 hour)
- Lesson 3 - Crew Resource Management (ground - 1 1/2 hours)
- Preflight Inspection (flight - 1 hour)
- Basic Flight Controls (flight - 1 hours)

Day 2:

- Lesson 4 - Airspace Classification and Restrictions (ground - 1 hour)
- Lesson 5 - Operations On And Near Airports (ground - 1 hour)
- Lesson 6 - ATC Communications Basics (ground - 1 hour)
- Lesson 7 – Charting your Course (ground - 1 hour)
- Piloting Skills (flight - 2 hours)

Day 3:

- Lesson 8 - Aviation Weather (ground - 1 1/2 hours)
- Lesson 9 - Aircraft Weight and Balance (ground - 1 1/2 hours)
- Lesson 10 - Knowledge Test Preparation (ground - 1 hour)
- Crewed UAS Operations (flight - 2 hours)

Completion Standards

Upon successful completion of this course, you will:

- Demonstrate understanding of 14 CFR Parts 48 and 107
- Navigate registermyuas.faa.gov to complete sUAS registration
- Create personal accounts with IACRA and FAA Safety Team
- Complete the FAASite online Part 107 Remote Pilot training
- Study for, and pass, the FAA Small UAS Remote Pilot Knowledge Test

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