Course Title: Heavy-Lift UAS Operations Under FAA Part 108
Instructor: The Drone Professor
Audience: Law Enforcement, Fire, SAR, Emergency Management, and Public Safety UAS Teams
Duration: 1-Day Intensive (8 hours) or Modular Delivery (4 x 2-hour blocks)
Format: Instructor-led classroom + optional field demonstration
Prerequisites: Valid Part 107 Certificate, Agency UAS Program Participation, Familiarity with BVLOS Concepts

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Course Overview
This course prepares public safety professionals to operate unmanned aircraft over 55 pounds under the proposed FAA Part 108 rule. Participants will learn how to plan, execute, and document BVLOS missions using heavy-lift platforms in compliance with structured oversight requirements.

Learning Objectives
By the end of this course, participants will be able to:

- Break down the structure and intent of FAA Part 108
- Identify airworthiness and maintenance requirements for heavy-lift UAS
- Plan and execute BVLOS missions using standardized workflows
- Define crew roles and detect-and-avoid protocols
- Document reliability, emergency procedures, and post-flight data

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Course Modules
Module 1: Regulatory Framework

- Why Part 108 was proposed
- Differences between Part 107 and Part 108
- BVLOS and >55 lb aircraft limitations
- Operating Permits vs Operating Certificates

Module 2: Airworthiness & Reliability

- Declaration of Compliance
- Maintenance documentation
- Reliability tracking and COS programs
- Battery and life-limited part management

Module 3: BVLOS Mission Planning

- Preflight risk assessment
- Crew roles and checklists
- Detect-and-avoid systems and procedures
- Post-flight documentation and analysis

Module 4: Emergency Procedures & Safety

- Loss of link protocols
- DAA failure response
- Emergency landing zones
- Incident reporting and review

Module 5: Public Safety Use Cases

- Drone as First Responder (DFR)

- SAR corridors and overwatch
- Tactical overwatch and crowd monitoring
- Disaster response and payload delivery

Contact & Enrollment
For agency enrollment, private delivery, or licensing, contact:
The Drone Professor
https://thedroneprofessor.com