



**NICK LANGOLF**

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**UAS SAFETY & CERTIFICATION  
STRATEGIST**

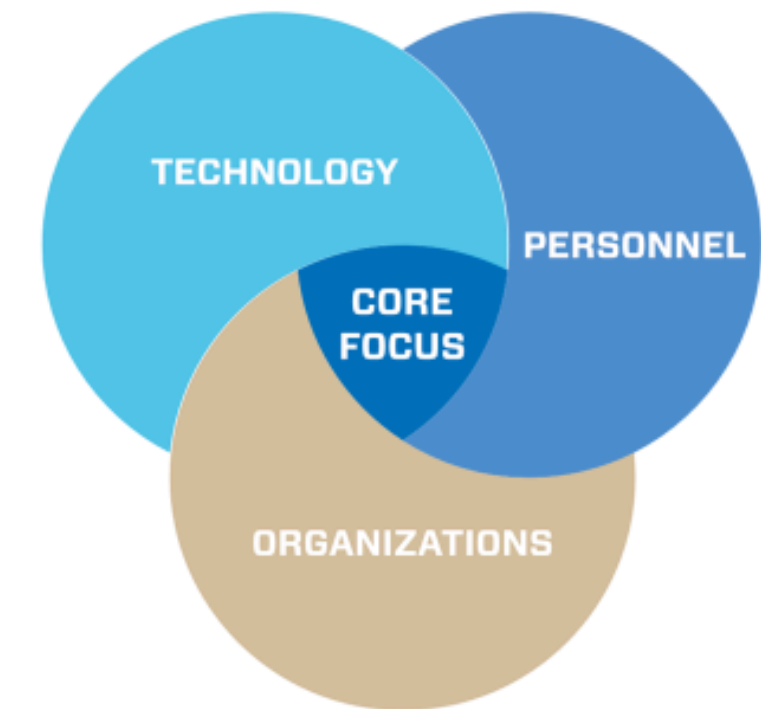


# ABOUT USI

THE LEADERS IN UAS WORKFORCE DEVELOPMENT SINCE 2014

 <https://www.flyusi.org/about-usi>

USI exists to define, promote and support the best practices for UAS operations starting with the industry's current and future workforce through complex applications of UAS operations in any market sector around the globe.





# Regulatory Compliance, Best Practices, Insurance Backing

## PROFESSIONAL CERTIFICATION

Standards Based Workforce & Professional Development



Meets and exceeds the Airman Certification Standard for aeronautical knowledge



Meets the National Institutes of Standards and Technology standard for aerial imagery acquisition



Meets ASTM International standard for training Remote Pilot in Command of Unmanned Aircraft Systems



From the beginning, USI has partnered with aviation insurance underwriters to promote best practices in safety. Currently, USI is a proud member of USAIG's Performance Vector program.

# Guided by Purpose, Driven by Excellence

USI is the ultimate source for workforce development, remote pilot sourcing, organizational safety solutions, and standards-based education, training, and professional safety-oriented, industry recognized certifications.



**150000+**

HOURS INSTRUCTED



**20000+**

STUDENTS



**1000+**

ORGANIZATIONS



**350+**

CERTIFIED INSTRUCTORS



# Safety Ecosystem



# Explore Our Turnkey Safety Solutions

USI Empowers and Enables Successful UAS Programs with Industry Relevant Training Solutions, Standards-Aligned Certifications, and Accelerated Professional Development Training Opportunities for Reskilling and Upskilling into the Drone Industry.



## Curriculum

USI offers turn-key, innovative curriculum for remote pilots and maintenance technicians ready to enter the fast-growing, emerging technology workforce.

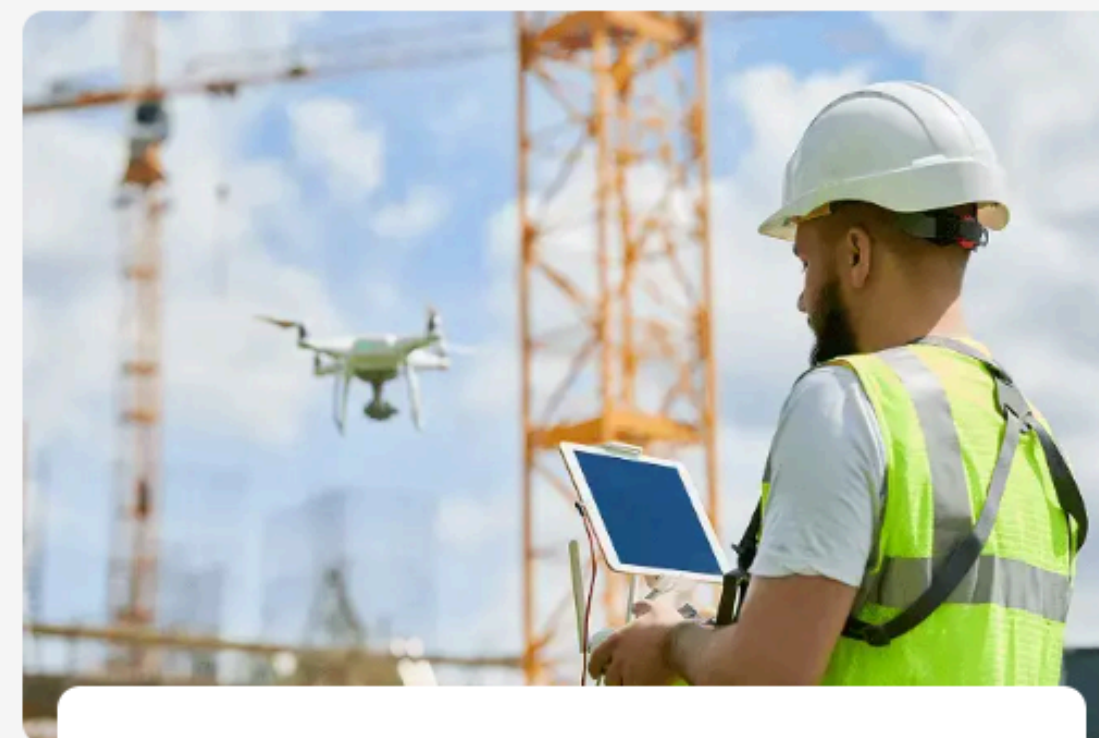
[Learn More →](#)



## Training

Built to equip learners with industry-leading knowledge and skills tailored to meet the demands of UAS operations, USI provides custom training solutions.

[Learn More →](#)



## Certification

USI's workforce readiness certification pathways are aligned with global standards for **UAS Maintenance Technicians** and **UAS Remote Pilots in Command**.

[Learn More →](#)





**EMPOWERING THE ADOPTION OF THE TECHNOLOGY AND IDENTIFY  
THE PATHWAY FOR ACADEMIA TO DEVELOP THE WORKFORCE**

# SOLUTIONS

Emerging Technology  
Certifications & Programs

Industry/  
Regulatory  
Requirement



PART 107 PREP



Remote Pilot Certificate

Enhanced Workforce Training



**PRIMARY OPERATIONS**

Under 20 lbs.,  
Visual Line of Sight,  
Lower air and ground risk,  
Psychomotor skills,  
Conducted under 14 CFR 107



**ADVANCED OPERATIONS**

Over 20 lbs.,  
Beyond Visual Line of Sight,  
Higher ground and air risk,  
Programmed flight paths,  
Conducted under Parts 135, 91 waiver



**AIRCRAFT, SCENARIO, & RISK SPECIFIC TRAINING**





# Primary Pathway (VLOS <20lbs)

## Primary PRO® Pathway Certifications

- SL1-3 programs online and self paced
  - Commercial remote pilot prep (107 readiness)
  - sUAS Technology (UAS Foundations)
  - sUAS Mission Planning (Risk Mitigation)
  - sUAS Maintenance (coming in Spring 2025)
- SL4 program culminates in 3-5 day onsite, final check ride on Group 1 aircraft (quad copter)
- Visual Line of Sight (VLOS) System Operations (Flight training)
- Primary Pro – Instructor training (train the train)



# Advanced Pathway (BVLOS)

## Advanced PRO® Pathway Certifications

- AL1-3 programs online and self paced
  - Crew Operations
  - Risk Management
  - Advanced Planning
- AL 4 Advanced Flight Operations
  - AL4 culminates in 3-5 day onsite, final check ride on Group 2 BVLOS Fixed Wing aircraft that includes vertical takeoff features and commanded out of an (MCC) Mobile Command Center



# TRAIN THE TRAINER

## PROGRAMS FOR EDUCATORS AND FLIGHT INSTRUCTORS



Remote Pilot Certificate



01

### sUAS TECHNOLOGY

All remote pilots and technicians must comprehend the functions and inter-dependencies of the sub-components within remotely piloted aircraft systems. Successful graduates will be granted USI Safety Certification.

02

### sUAS MAINTENANCE

Integrating theoretical knowledge with practical skills, participants will be equipped to adeptly diagnose, repair, and maintain a small uncrewed aircraft, extending its lifespan and ensuring operational integrity.

03

### sUAS MISSION PLANNING

Memorizing regulations and operational limits is insufficient; applying that knowledge necessitates comprehension. This certification signifies that the recipient possesses the ability to plan, review, and make time-critical decisions concerning RPAS operations.

04

### VSO FLIGHT OPERATIONS

Take to the skies utilizing a cutting-edge flight training program offered by USI. The program encompasses six core domains and mandates participants to showcase proficiency in both psychomotor skills and the application of standardized procedures, ensuring the secure execution of air missions.

05

### USI CERTIFIED EDUCATOR

For organizations licensing our knowledge-based curriculum, USI provides training and continuous support. USI Certified Educators are required to obtain the underlying certification, undergo training on our Learning Management System, and participate in educator orientation. Completion of the entire program is encouraged as an integral component of educators' professional development.



### PRIMARY FLIGHT INSTRUCTOR

This course covers instructional fundamentals and includes practical exercises. Participants actively engage in the role of an instructor while our experts simulate hazardous student scenarios. Successful completion of this program qualifies graduates to conduct flight training and endorse VSO flight students for USI certification.



01

### RISK MANAGEMENT

Acquire the skills to establish robust safety protocols, assess risks, and effectively mitigate them in UAS operations. This training provides participants with the knowledge and strategies necessary to actively contribute to a company's safety management system.

02

03

### CREW OPERATIONS

Human Factors and Crew Resource Management training tailored for Unmanned Aircraft Systems (UAS). Learn to optimize crew collaboration, enhance situational awareness, and manage resources effectively for safer and more efficient UAS operations.

04

### ADVANCED FLIGHT OPS

Fly further and longer by utilizing a cutting-edge flight training program offered by USI. The program encompasses seven core domains and mandates participants to showcase proficiency in flight path management and the application of standardized procedures, ensuring the secure execution of air missions.

05

### ADVANCED FLIGHT INSTRUCTOR

This advanced-level course delves into the intricacies of instruction, offering participants an in-depth exploration of advanced systems in UAS. Through immersive practical exercises, participants assume the role of an instructor, navigating complex scenarios with our expert guidance. Upon successful completion, graduates gain the expertise needed to conduct comprehensive flight training and endorse Advanced flight students for USI certification.





# MULTIPLE DELIVERY OPTIONS TO SERVE YOUR NEEDS



**ONLINE, CLASSROOM OR BOTH  
ACCELERATED & BOOT CAMP DELIVERY  
MODELS AVAILABLE**



SELF DIRECTED



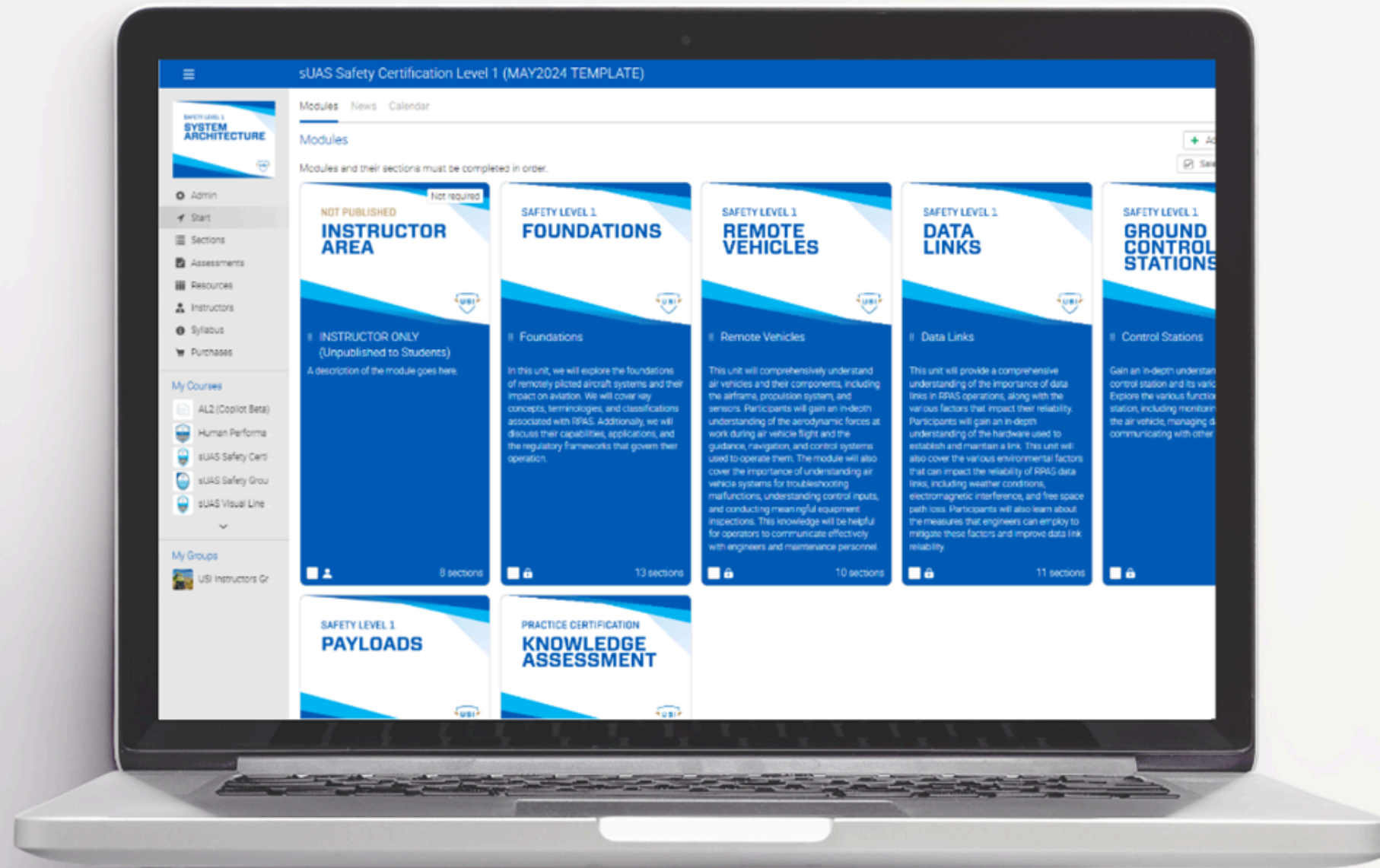
CUSTOMER LED



TAUGHT BY USI

## OUR COURSES

- ▷ ORIGINAL BODY OF KNOWLEDGE
- ▷ WORKBOOKS (PHYSICAL OR DIGITAL)
- ▷ PRESENTATIONS COVERING KEY CONCEPTS
- ▷ ELABORATION EXERCISES TO ENGAGE LEARNERS
- ▷ MULTIPLE ASSESSMENTS
- ▷ DEDICATED CUSTOMER SUCCESS TEAM



*MARCRAFT*

# Marcraft's New Cybersecurity for Drones Program

Dec 31 2024

**CYBERSECURITY FOR DRONES (UNCREWED AIRCRAFT)**

UAS-6500





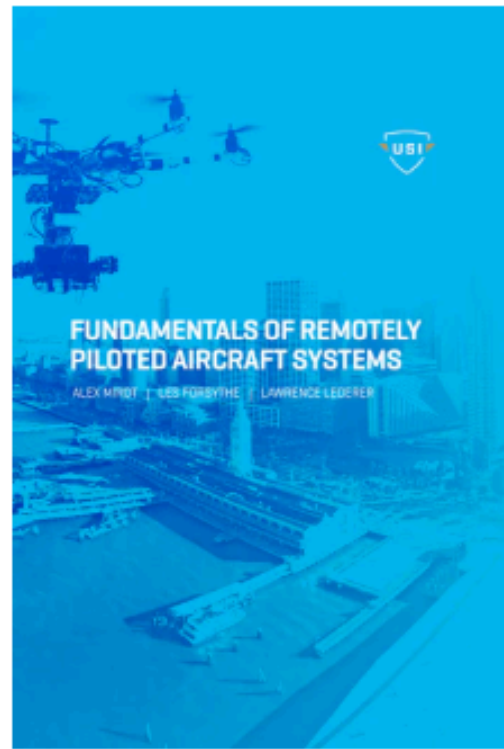
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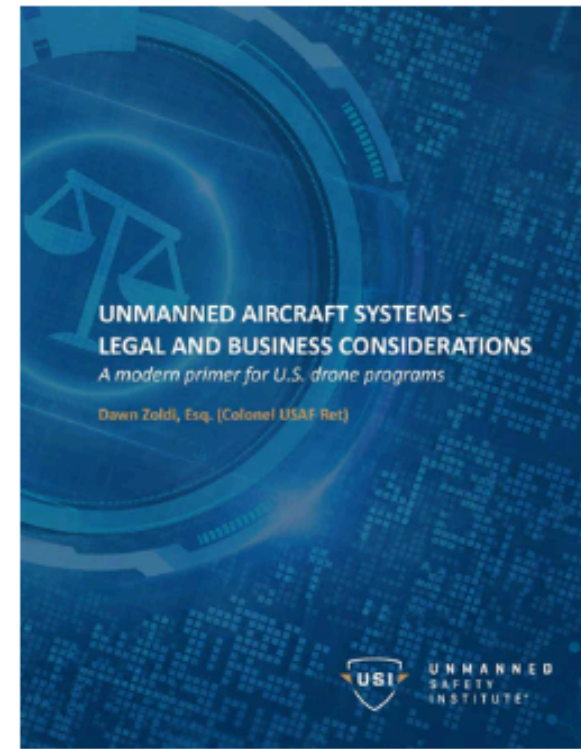
# **AEA UNVEILS CERTIFIED AIRCRAFT ELECTRONICS TECHNICIAN CREDENTIALS, PARTNERSHIP WITH UNMANNED SAFETY INSTITUTE**

 Mar 18, 2025  Press

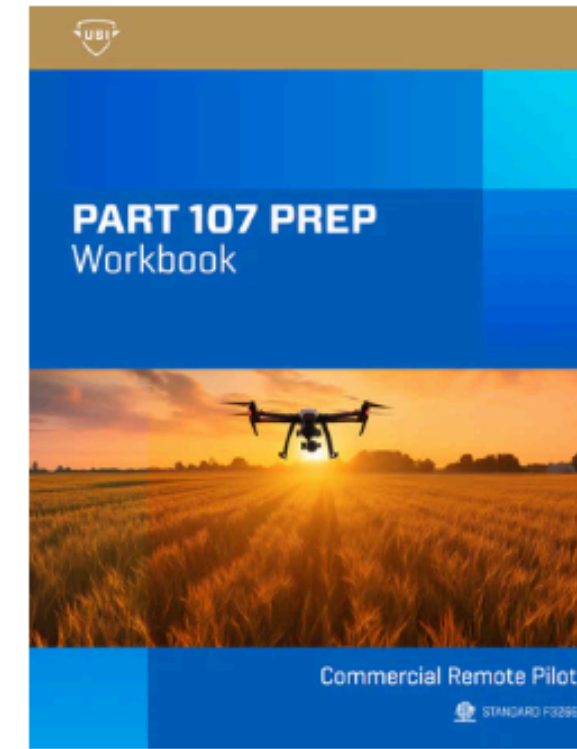




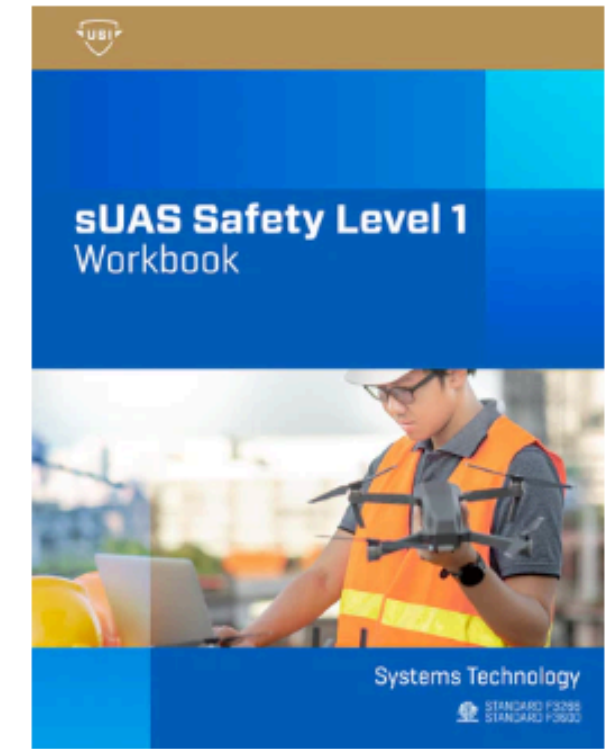
**Fundamentals of Remotely  
Piloted Aircraft Systems**



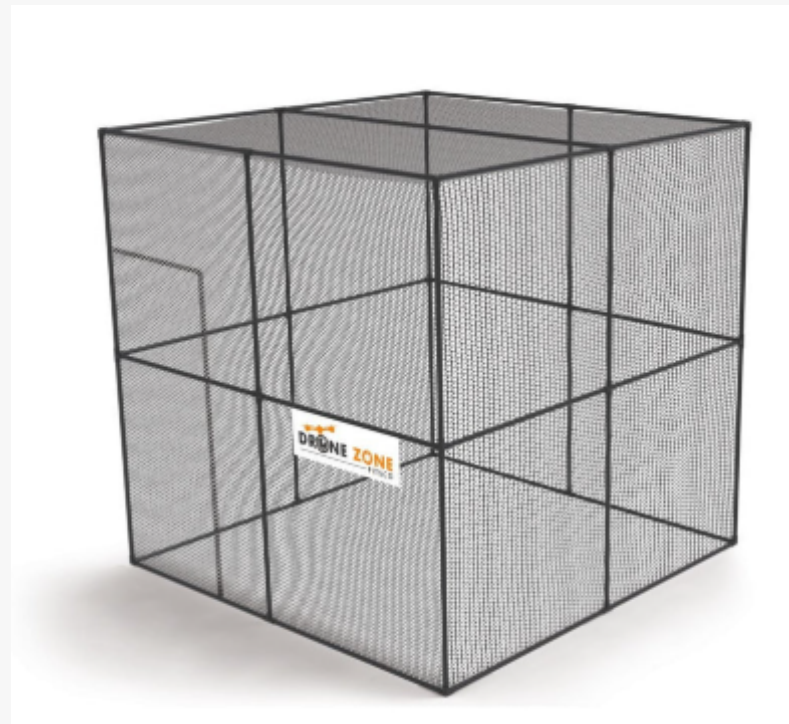
**Unmanned Aircraft Systems:  
Legal and Business**



**Part 107 Prep Commercial  
Remote Pilot Workbook**



**sUAS Safety Level 1  
Workbook**





# FAA Part 107 Workshop

**April 7-11, 2025 | Brookhaven Campus | Building H, Room 125**

This Part 107 Workshop provides the required aeronautical knowledge for remote pilots operating systems flown within Visual Line-of-Sight (VLOS) and weighing less than 55 pounds. The curriculum addresses pertinent aeronautical knowledge, including regulations, meteorology, operations within the National Airspace, and Aeronautical Decision Making (ADM).

This course covers all topics the FAA requires to pass the Unmanned Aircraft General (UAG) examination. It augments those topics with safety concepts and practices to develop well-informed and responsible remote pilots. Students who complete the course receive a certificate of completion from USI and are well-prepared to pass the UAG exam.

**No Cost - Limited Seating. Register today!**

## Skills You'll Gain:

- Regulations
- Meteorology
- Airspace
- Aeronautical Decision Making (ADM)
- Safety Best Practices
- Full Prep for the FAA Part 107 UAG exam

## Great For:

- Entry-level employees or individuals seeking employment in the unmanned aviation industry
- Professionals in Public Safety, Construction, Agriculture, Real Estate, Emergency Response, Academia, and beyond!

**Register for Part 107  
Workshop**



**Register for the  
Workshop**

**Request Info**

## Overview



**Instructor :** Michael Hill



**Duration :** 32 hours



**Modules :** 4



**Course level :** Beginner



**Language :** English

**May 19-22 in Houston**



**July 16-18 in Houston**



# THANK YOU!



**Nick Langolf** ✓

Empowering Academia, Public and Private sectors in the adoption of Drones/UAS/RPAS Technology.

Greater Phoenix Area · [Contact info](#)

<https://www.flyusi.org/>

500+ connections



Unmanned Safety Institute

