

UNMANNED SAFETY INSTITUTE M



UNMANNED SAFETY INSTITUTE"

MISSION

To improve safety in Unmanned Aircraft System operations

PHILOSOPHY

and proponents focused on improving safety in UAS operations through the adoption and The Unmanned Safety Institute is a professional training organization for UAS operators modification of time honored aviation safety and training practices

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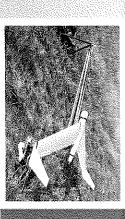
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Create UAS professionals with safe attitudes and training focused on reducing errors



ORGANIZATION FOCUS

Provide UAS proponents with Safety Management Systems (SMS) and OEMs with quality training programs



TECHNOLOGY FOCUS

Operationally test UAS to create reliability data and set safety standards





UNMANNED SAFETY INSTITUTE

- Training educators on safety so that they may use USI curriculum and training to promote safety awareness
- Authorized Training Provider are certified by USI to offer safety training that will lead to certification
- Institutions of Learning are non-profit organizations (schools and universities) that are certified by USI to offer safety training that will lead to certification
- Develop Initial Qualification Training (IQT) that integrates USI safety training
- Evaluate existing training for certification and make recommendations for improvement
- Provide three levels of safety training for UAS crews
- Help proponent companies to organically grow Safety Management System
- Train Safety Promotors that are approved by USI to offer annual refresher training

Insurance

- Certify and credential individuals
- Risk Assessment
- Provide safety workshops for customers

Conduct safety audits



- Use the UAS in a manner that is not reckless or dangerous
- Comply with community-based safety Fly under 400 feet AGL standards
- Fly 5 nautical miles away from an airport of heliport, or at a community-
- Use FCC license free frequencies based organization sponsored facility

- Do NOT directly overfly people
- reckless or dangerous Use the UAS in a manner that is not
- Fly during daylight and maintain clear
- of agreement with local air traffic airport of heliport, or within the letter
- Maintain visual line of sight with the

- Be trained in the system
- regulations and guidelines Know applicable aviation rules,
- Stay a minimum of 150 feet away from not associated with the operation people, animals, structures, or vehicles
- Have liability insurance

- Fly under 400 feet AGL
- of clouds
- Fly 5 nautical miles away from an
- Use FCC license free frequencies
- Give "right away" to traditional aircraft

Be qualified in the system

- people, animals, structures, or vehicles Stay a minimum of 150 feet away from not associated with the operation Have a Private Pilot License
- Have liability insurance
- Do NOT directly overfly people
- reckless or dangerous Use the UAS in a manner that is not
- approved for higher) Fly under 400 feet AGL (unless
- Fly during daylight and maintain clear of clouds (unless instrument rated and UAS has approved lighting
- airport of heliport, or within the Fly 5 nautical miles away from an boundaries Certificate of Authorization
- Use FCC license free frequencies
- Register the UAS with the FAA
- Maintain visual line of sight with the
- Have an approved Standard Operating Give "right away" to traditional aircraft
- Have a compliant privacy policy Procedure
- Maintain and ensure airworthiness

over 55 lbs. or BYH

- Be qualified in the system
- Have a Commercial Pilot License with Instrument rating
- Stay a minimum of 150 feet away from people, animals, structures, or vehicles not associated with the operation
- Have liability insurance
- Do NOT directly overfly people
- reckless or dangerous Use the UAS in a manner that is not
- and a Airworthiness Certificate and avoiding" non-cooperative aircraft have an approved method of "seeing certificate of authorization and/or Fly within the restrictions of the
- Register the UAS with the FAA
- Fly on a UAS specific Instrument Flight Plan filed with air traffic control
- Give "right away" to traditional aircraft
- Have an approved Standard Operating

Maintain and ensure airworthiness

Have a compliant privacy policy

- out and strobe lighting System must be equipped with ADS-B prior tor flight
- Pilots must have a way of communicating with air traffic and





System Operator (VSO) ... Visual Line of Sight





- Gain knowledge from an Original Equipment Manufacture or training
- proficiency in a UAS

- Safe concept of operations
- Safety Protocols

Pass FAA Private Pilot written

Not applicable or required

- normal, and abnormal procedures, or center on system specific equipment,
- Demonstrate safe flight and
- Complete Safety Awareness Training
- Safety culture
- **Human factors**
- Risk management

- Obtain a FAA Private Pilot License
- Demonstrate proficiency in the UAS course or USI certified training center from an Original Equipment Manufacture initial qualification
- Complete Safe Practitioner Training Core values for UAS operators
- Planning safe operations
- Protocols Procedures and Safety Standard Operating
- Human factors and crew resource management
- Risk management

JAS over 55 los or EVII Operator (CSO) ...

Commercial System

- Obtain a FAA Commercial Pilot
- Complete Safe Leadership Training Demonstrate proficiency in the UAS course or USI certified training center Manufacture initial qualification License with an instrument rating from an Original Equipment
- Core values for UAS operators
- Planning safe beyond visual Standard Operating range operations
- Procedures and Safety
- Human factors and crew Protocols
- resource management
- Risk management for line of sight and beyond visual range
- Safety Management Systems







SMALL UAS SAFETY COURSE

UNMANNED AVIATION SAFETY WORKSHOP

SAFETY LEADERSHIP WORKSHOP

Level III

Current Safety Challenges

Parts of the Unmanned Aircraft

- Planning Site Preparation and Preflight
- Operational Risk Management
- The Professional Operator

Concept of Operations and

Operator

The Responsible Small UAS

Planning

- Human Factors and UAS Level II
- Crew Resources and
- Management

Identifying Hazards in Your Human Factors and UAS Level I

Operation

The Personal Safety

Management System

Operational Risk Management

- Systems approach
- Leadership and supervision
- Implementing Safety Policy
- Safety Risk Management for **BVR** operations
- Safety Assurance
- Learning Lessons
- Safety Promotion



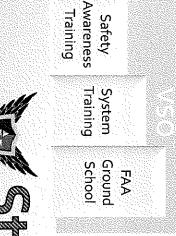


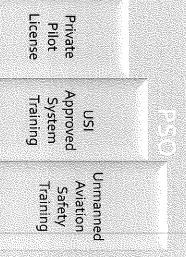


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Visual Line of Sight System Operator

supplemental crewmembers under) pilots, visual observers, and Appropriate for very small system (4 pounds and





Level III

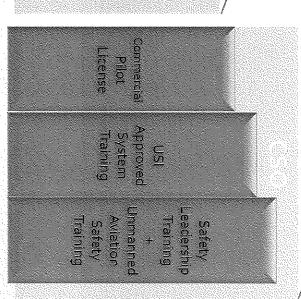
Commercial System Operator

Appropriate for larger system pilots in command

Level II

Appropriate for small system pilots in command

Professional System Operator



* Stackable Credentials

Add-ons

USI Certified Instructor

After earning a USI credential, individuals can add an instructor credential to their resume and teach USI courses/certifications for their company or organization. Also appropriate for OEM instructors who want to focus on safety

About Unmanned Safety Institute Credentials

in USI training, provided by a USI certified instructor. USI certification USI certifications by stacking a series of credentials and participating Operators and pilots can start at any part of the spectrum and earn USI has established training and education criteria for safe UAS crews levels are shown in the blue circles



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The understanding that people, property, and equipment have value and should be treated in a serious and appropriate way. USI members and professional operators will value people's privacy, people's right to their opinions, laws, rules, and regulations, private and public property, and the equipment they operate.

one's work. Excellence is embodied in: professional development, high standards, highly qualified crews, taking the Putting in maximum effort every time, diligently working to improve, and striving for the highest possible quality in time to do things correctly and safely, and promoting excellent people.

Responsibility includes: safely operating systems, avoiding undue risk, ensuring airworthiness of people and equipment, Knowing that you are ultimately the person who has the power to cause something to happen, have an obligation to perform your duties as required, and expected because it is morally right, legally required, or will affect others. planning for contingencies, and exercising integrity.

Responsibility

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Respect

UAS SAFETY STARTS @ THE UNMANNED SAFETY INSTITUTE

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