SMALL UNMANNED AIRCRAFT SYSTEMS

CERTIFICATE PROGRAM & COURSES

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SUAS 1000 **UNDERSTANDING DRONES: INTRODUCTION TO UAS**

This course will provide you with an understanding of unmanned aircraft systems fundamentals, building a solid foundation of knowledge for further learning. You will learn about the history of drones, how they work and their applications across a range of fields. Discover how to select the right type of aircraft, and payload, to successfully complete your mission, as well as the basic rules that govern UAS operations. Finally, learn how to build an aircrew for your UAS program and make the right call while standing on the flight line. *(2 CEUs)*

SUAS 1300 **GLOBAL UNMANNED AIRCRAFT SYSTEMS RISK MANAGEMENT**

This online course will provide an overview of risk management. It will discuss insurance, global anti-drone efforts, risk management and future concerns. Topics include: liability, underwriting considerations, systems and techniques used by various countries for mitigation and detection of drones, maintenance, contracts, standard operating procedures, and operator identification. *(2 CEUs)*

SUAS 1400 **SUAS INSPECTION COURSE**

This course provides an understanding of the concepts required to use sUAS for conducting inspections. Topics include: inspection types, flight operations, data collection and sUAS regulations. The course will also discuss safety, flight planning, maintenance and communications as these factors are essential to conducting safe and effective inspection operations. *(2 CEUs)*

SUAS 1500
FUNDAMENTALS FOR STARTING A sUAS SMALL BUSINESS

This course provides an introduction to business and operational fundamentals for individuals interested in starting their own business using sUAS. Topics include: liability, forms of business and legal documentation. The operational portion of this class will cover equipment requirements, advertising, insurance, compliance, safety, post-flight processing and customer requirements. *(2 CEUs)*

SUAS 1800
ORGANIZATIONAL STANDARDIZATION PROGRAM

This course prepares an organization to complete the protocol requirements of the AUVSI Trusted Operator Program (TOP). Course will include the concepts of the TOP certification process, a gap analysis, fleet and personnel management, the Flight Operations Manual, the Standard Operating Procedures Manual, the Safety Management System, a General Maintenance Manual, checklists, and functional area-unique requirements.

DEVELOP YOUR
POTENTIAL

Small unmanned aircraft systems (sUAS) are rapidly transforming businesses and industries as we know them.

From individual enthusiasts to major corporations, sUAS users are striving to harness the power of these systems, while keeping up with the industry's ever-evolving technology and legal regulations. Embry-Riddle provides professional programs and courses to keep you ahead of the curve in small unmanned aircraft systems.

Our highly specialized programs are ideal for working adults who strive to gain cutting-edge knowledge. And because we know you have work obligations, professional programs at Embry-Riddle offer flexibility to you and your organization.

Flexible delivery options

All you need is a computer with an Internet connection to access our online training. sUAS courses are facilitated online by an instructor — with a start and end date and weekly assignments. Students can log in any time of day or day of the week. Custom courses may be available with alternate delivery options such as live/online, live/in-person and self-guided.

Please contact us for group custom training requests, at training@erau.edu

Visit us online /// proed.erau.edu

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sUAS FOR PUBLIC SAFETY CERTIFICATE
PROFESSIONAL PROGRAM

SUAS 2000   sUAS GROUND SCHOOL
Delivery: Online/facilitated

Prepare for the Part 107 Unmanned Aircraft General Knowledge Test while gaining a solid background in aviation knowledge, so you can feel confident operating sUAS safely in the National Airspace System.

The sUAS ground school includes four weekly modules that give students new to the aviation and UAS world a working knowledge of aircraft components and systems, FAR Part 107 knowledge and test prep with weekly and final assessments. Additionally, students are exposed to fundamentals of flight, weather, regulations, navigation, human factors and safety. By the end of the course, students are prepared to take the Part 107 exam. (4 CEUs)

SUAS 3000   sUAS FUNDAMENTALS FOR PUBLIC SAFETY
Delivery: Online/facilitated

Small UAS are being used more frequently in public safety efforts — but where do you begin to incorporate them as part of your plan? Learn about the fundamentals required to integrate sUAS into public safety operations in this four-week online course. The topics covered include identifying components for a UAS Aviation Unit for Public Safety entities, identifying specific agency requirements and assessing the cost benefit of UAS integration. The course will discuss regulatory compliance, certificates of authorization, the role of the community, operator selection and standard operating procedures. (2 CEUs)

SUAS 3200   DEVELOPING A sUAS STANDARDIZATION PROGRAM
Delivery: Online/facilitated

This course examines SUAS standardization programs for any Public Safety organizations. The course includes; the regulatory framework SUAS can operate within, petitioning the Federal Aviation Administration for a Public Aircraft Operations (PAO) Certificate of Authorization (COA), identifying key personnel, and performing crew-member evaluations. The course will also explore elements of flight operations documentation necessary to standardize the way crew-members perform. (2 CEUs)

Prerequisite: SUAS-3000 - sUAS Fundamentals for Public Safety

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SUAS 4000FOI   FUNDAMENTALS OF INSTRUCTION

The Fundamentals of Instruction curriculum from the Federal Aviation Administration is intended to establish a high quality flight instructor corps. This course exposes Instructor Candidates to the core elements of instructional knowledge as aligned with the UAS industry. *(2 CEUs)*

SUAS 5000   INCIDENT EVIDENCE COLLECTION AND PRESERVATION FOR LAW ENFORCEMENT

This course presents sUAS academics and flight training for advanced law enforcement users. The academic focus is on professional aviation standards and best practices including safety management systems (SMS), development and use of standard operating procedures and checklists, crew resource management (CRM), human factors, aviation weather, day/night flight operations, regulatory compliance and documentation, and post-flight data processing. The flight portion builds from basic and advanced flight maneuvers emphasizing safe and effective operations to unique flight and data collection missions. Each mission increases in complexity and culminates in multiple, post-incident data collection and processing missions utilizing various sUAS platforms and processing software. *(3.2 CEUs)*

SUAS 6000   AIRWORTHINESS CERTIFICATION OF UNMANNED SYSTEMS

This course features an in-depth examination of existing airworthiness certification processes and applies them to the emerging field of unmanned aircraft systems. Students will be introduced to basic UAS applications, the history of UAS, an explanation of airworthiness standards, certification organizations, airworthiness requirements and UAS type certifications. Students will complete an sUAS certification project of their choosing as part of the course requirements. *(2 CEUs)*

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