

# Unmanned Aircraft Systems (UAS) eLearning Classes

## Ohio Department of Transportation



### PROJECT DESCRIPTION

The use of Unmanned Aircraft Systems (UAS) is becoming a transportation industry standard. In addition, the Ohio Department of Transportation (ODOT) implements the Federal Highway Administration (FHWA)'s On-the-Job Training Program policy, which requires training opportunities to increase participation of women, minorities, and disadvantaged persons in the industry. As a result, ODOT hired BPS to develop eLearning training courses to enable historically under-represented groups to receive the necessary training to subsequently take and pass the UAS Commercial Pilot License exam, which will enable trainees to move into journey-level positions to operate UAS equipment.

For this project, BPS utilized federal and state resources to research topics for each course and develop content. BPS also consulted industry leaders. The final eLearning classes were designed to be both aesthetically appealing and user-friendly. Each course was also designed to accommodate a variety of different users by including audio, transcripts, and clickable media that could enlarge.

BPS developed two eLearning courses. The first course, *Unmanned Aircraft System (UAS) Awareness*, served as a prerequisite to the second course, *UAS Remote Pilot Certification: Operational Knowledge*. The second course consisted of four modules, each with an interactive knowledge check to test participants on what they learned throughout the course. The modules included:

1. FAA Regulations
2. Aviation Fundamentals
3. UAS Operations
4. Remote Pilot Resources

### LOCATION

Statewide, Ohio

### HIGHLIGHTS

- Development of two eLearning Courses with four modules
- Inclusion of graphics, videos, and clickable media to illustrate information
- Development of interactive knowledge checks and exams

### MAJOR TASKS

- eLearning course development
- Data visualization & infographics
- Graphic design
- Outreach & promotional materials

**UAS** Unmanned Aircraft Systems  
Remote Pilot Certification:  
Operational Knowledge Course

Module 1: Federal Aviation Administration (FAA) Regulations

dot **OHIO** LTAP | Local Technical Assistance Program

Transcript

**UAS** Unmanned Aircraft Systems Remote Pilot Certification: Operational Knowledge Course

Course Goals

Understand basic Remote Pilot operational knowledge

- 1 Understand importance of FAA Part 107 Regulations
- 2 Develop familiarity with fundamental aviation knowledge
- 3 Understand how to prepare for and complete Unmanned Aircraft Systems (UAS) Operations
- 4 Gain familiarity with resources to develop Remote Pilot skills

Transcript

**UAS** Unmanned Aircraft Systems Remote Pilot Certification: Operational Knowledge Course

14 CFR 107

Subpart A: General

(a) A remote pilot in command, owner, or person manipulating the flight controls of a sUAS must, upon request, make available to the Administrator:

- (1) The remote pilot certificate with a sUAS rating; and
- (2) Any other document, record, or report required to be kept under the regulations of this chapter.

(b) The remote pilot in command, visual observer, owner, operator, or person manipulating the flight controls of a sUAS must allow the Administrator to make any test or inspection of the sUAS, the remote pilot in command, the person manipulating the flight controls of a sUAS, and, if applicable, the visual observer.

107.1 Applicability 107.3 Definitions 107.5 Falsification, Reproduction, or Alteration 107.7 Inspection, Testing & Demonstration of Compliance 107.9 Accident Reporting

Transcript



For More Information:

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