

QUALIFIED AIRPORT WILDLIFE BIOLOGIST TRAINING COURSE

COURSE SYLLABUS

Purpose: To provide a three-day training course (24 hours) that meets the Federal Aviation Administration (FAA) requirements as outlined in FAA Advisory Circular (AC) 150/5200-36B “Qualifications for Wildlife Biologist Conducting Wildlife Hazard Assessments and Training Curriculums for Airport Personnel Involved in Controlling Wildlife Hazards on Airports” (01/24/2019).

Goal: To provide the knowledge, skills, and abilities needed by a wildlife biologist to conduct Wildlife Hazard Assessments [§139.337(c)] and to conduct wildlife hazard training [§139.337(f)(7)].

Participants: Wildlife biologists pursuing FAA Qualified Airport Wildlife Biologist (QAWB) Certification
Airport personnel involved in wildlife hazard management
Airport managers, planners, environmental compliance, and operations staff
Aviation students
State and Federal aviation agencies
Aviation stakeholders - pilots, air traffic control, fixed-base operators

Location: Purdue Polytechnical -Aviation Technology Center

Host Airport: Indianapolis International Airport

Dates: October 8-10, 2019

Instructors: Sarah Brammell, QAWB - Lead Instructor - Blue Wing Environmental, LLC
Dr. Sarah Hubbard, Professor - Purdue University Aviation & Transportation Technology
David Stanley, Director & Professor, - Purdue Polytechnic Indianapolis
Ronald Merritt, QAWB & DOD BASH expert - Swift Creek LLC

Contact: For additional course information or questions, contact:

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3-DAY TRAINING AGENDA

DAY 1 - Purdue Polytechnical -Aviation Technology Center Classroom

- Training goals and process
- Preview of wildlife hazards to aviation - Civilian & DOD
 - (1) History of major strikes
 - (2) Aviation losses - World Wide & United States
- Wildlife Hazard Management Overview
 - (1) FAA role, regulations, & guidance
 - (2) WHA overview
 - (3) WHMP overview
 - (4) Training
 - (5) Commercial vs. General Aviation Airports
- Airport familiarization
 - (1) Introduction to the National Plan of Integrated Airport Systems
 - (2) Airport design and layout (AC 150/5300-13 Airport Design)
 - (3) Navigation aids and Air Traffic Control (Aeronautical Information Manual [AIM])
 - (4) Airport operations and safety (AIM)
 - (5) Signs, marking, and lighting (AC 150/5340-1K Standards for Airport Markings and AC 150/5340-18F Standards for Airport Sign Systems)
 - (6) Ground vehicle operator communication (AC 150/5210-20 Ground Vehicle Operations on Airports)
- Aircraft familiarization
 - (1) Physics of a strike
 - (2) Aircraft nomenclature
 - (3) Civil aviation aircraft categories
 - (4) Aircraft engines
 - (a) Reciprocating
 - (b) Turbo
 - (5) Aircraft certification standards
- Federal and State agency roles and responsibilities
 - (1) U.S. Department of Interior, Fish and Wildlife Service
 - (a) Role and responsibilities related to managing problem wildlife
 - (b) Migratory Bird Depredation Permits
 - (c) Salvage Permits
 - (2) U.S. Department of Agriculture, Wildlife Services
 - (a) Role and responsibilities related to managing problem wildlife
 - (3) Other agencies
 - (a) U.S. Environmental Protection Agency
 - (i) Siting landfills
 - (ii) Pesticide registration and use
 - (b) U.S. Army Corps of Engineers
 - (i) Wetlands mitigation
 - (4) Multi-Federal Agency Memorandum of Agreement

- (5) Applicable State wildlife regulations
- Controlling laws, regulations, and policies
 - (1) Migratory Bird Treaty Act of 1918, as amended
 - (2) Animal Damage Control Act of 1931, as amended
 - (3) Bald Eagle Protection Act of 1940, as amended
 - (4) Federal Insecticide, Fungicide, and Rodenticide Act of 1948, as amended
 - (5) National Environmental Policy Act of 1969, as amended
 - (6) Endangered Species Act of 1973, as amended
 - (7) Title 14, Code of Federal Regulation, Part 139, Certification of Airports
 - (8) Title 40, Code of Federal Regulations, Part 258, Criteria for Municipal Solid Waste Landfills
 - (9) Title 50, Code of Federal Regulations, Parts 1–199, Wildlife Management
 - (10) Wendell H. Ford Aviation Investment and Reform Act for the 21st Century, Pub. L. No. 106–181 (April 5, 2000), "Structures Interfering with Air Commerce," section 503
 - (11) Applicable FAA ACs in the 150/5200 series about Airport Wildlife Hazard Management
 - (12) Applicable FAA Airport CertAlerts
 - (13) Applicable state and local laws, regulations, and ordinances
- Environmental issues—working with Federal and State agencies
 - (1) National Environmental Policy Act
 - (2) U.S. Army Corps of Engineers (wetland loss and mitigation issues)

DAY 2 - Purdue Polytechnical -Aviation Technology Center Classroom

- Department of Defense requirements and perspective on military/civilian joint-use airports
- FAA National Wildlife Aircraft Strike Database
 - (1) Strike reporting
 - (2) Species identification and feather identification
 - (3) Database access
- Initial consultations and Wildlife Hazard Assessments (WHAs)
 - (1) Triggering events for WHAs
 - (2) Duration and contents of WHAs
 - (3) Wildlife surveys at airports to assess wildlife hazards
 - (4) Data analysis and presentation of results
 - (5) Writing a WHA
- FAA review of a WHA and determination of need for a Wildlife Hazard Management Plan
- Drafting and carrying out integrated WHMPs
 - (1) Contents of WHMPs
 - (2) FAA review of WHMPs
 - (3) Endangered Species Act compliance
 - (4) National Environmental Policy Act review
- Integrated wildlife hazard management for airports; survey of basic control strategies and tactics
 - (1) Flight schedule modification
 - (2) Habitat modification and exclusion

- (3) Wildlife dispersal techniques
- (4) Wildlife population management

DAY 3 - Indianapolis International Airport - Meeting Room & Airfield Tour

- Outline of field trip and group project - Mini WHA & group presentations
- Field trip/site visit: IND airfield and surrounding area
- QAWB resources
- Course review
- Final exam
- Post exam review
- Course evaluation
- Presentation of certificates

COURSE POLICIES

1. All participants are expected to behave in a professional and ethical manner.
2. No class materials, discussion, or images provide an endorsement of products.
3. Course instructors do not and shall not discriminate on the basis of race, color, religion (creed), gender, gender expression, age, national origin (ancestry), disability, marital status, sexual orientation, or military status, in any of its activities or operations.
4. Any comments or conduct that fails to respect the dignity and feeling of the individual are unacceptable. This training course will be a harassment-free environment.
5. Any violation of course policies may result in expulsion from the course.
6. To successfully complete the course, attendees must attend 24 hours of training and pass the final course exam.
7. Registration fees are non-refundable. However, registration fees are transferable for the same course dates.

ACKNOWLEDGEMENT AND UNDERSTANDING OF COURSE SYLLABUS

As a signatory, I acknowledge that I have read and understand the course syllabus and policies.

Attendee Name: _____

Attendee Signature _____ Date: _____