

QUALIFIED AIRPORT WILDLIFE BIOLOGIST TRAINING (24 HR)

2021 VIRTUAL TRAINING 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: Virtual

Dates: **Live Meetings October 19-21, 2021**

Course opens October 1, 2021 for **10 hours of prerecorded classwork** completion prior to October 19, 2021.

Instructors: Sarah Brammell, QAWB - Lead Instructor - Blue Wing Environmental, LLC
Ronald Merritt, QAWB & DOD BASH Expert

Contact: For additional course information or questions, contact:

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TRAINING AGENDA

PRERECORDED COURSE MODULES - 10 HOURS

- 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)
- 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
 - (6) FAA review of a WHA and determination of need for a Wildlife Hazard Management Plan
- Wildlife Hazard Site Visits and Continual Monitoring
 - (1) Purpose/Requirements
 - (2) Qualifications
 - (3) Methodology
 - (4) Documentation

DAY 1 - October 19, 2021 LIVE MEETINGS & PRESENTATIONS

Time: 12:00 - 4:00 Eastern Time Zone

- Introductions, course overview (recap)
- Review and content highlights of prerecorded modules and training materials - Q&A
- How to develop a WHA from start to finish
 - (1) Overview of qualification
 - (2) Methodology
 - (3) Understanding the airport setting
 - (4) Potential wildlife hazard attractants & addressing off-site attractants
 - (5) Site Logistics
 - (6) Potential challenges & complex issues
 - (7) Report writing
- Mini WHA assignment - instructions
- 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

DAY 2 - October 20, 2021 LIVE MEETINGS & PRESENTATIONS

Time: 12:00 - 5:00 Eastern Time Zone

- Wildlife hazard management control equipment
- Wildlife hazard management control strategies & tactics
 - (1) Passive management
 - (2) Active management
 - (3) Administrative management
- Airport program overview - Guest Speaker #1
- Airport program overview - Guest Speaker #2
- FAA regulatory update, Q&A - FAA National Wildlife Coordinator

DAY 3 - October 21, 2020 LIVE MEETINGS & PRESENTATIONS

Time: 12:00 - 5:00 Eastern Time Zone

- Mini WHA Presentation
- QAWB resources
- Special Topic Presentation - Guest Speaker #3
- Course review
- Final exam
- Post exam review/Course evaluation

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. Participants must provide their own equipment and secure internet connection to complete course materials and participate in all live meetings and presentations to complete the course.
8. Cancellation and Refunds: Cancellations on or before 30 days prior to the course start date will be charged a \$100 cancellation fee. NO REFUNDS for cancellations after 30 days prior to the course start date. Registration substitutions may be made at any time.
9. BWE reserves the right to cancel or change a class at any time, including but not limited to, lack of participation, classroom, equipment or trainer availability.

ACKNOWLEDGEMENT AND UNDERSTANDING OF COURSE SYLLABUS

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

Attendee Name: _____

Attendee Signature _____ Date: _____