Interagency Aviation Training Guide

Education • Qualification • Currency

December 2019

This page intentionally left blank

Interagency Aviation Training

A National Interagency System

Aviation Use and Management Qualifications Guide

December 2019

Prepared by

Interagency Aviation Training Subcommittee

2019 Revisions

ITEM	REVISION
A-100 Basic Aviation Safety	• Removed language requiring all instructors to be evaluated instructing A-100 prior to being certified to teach other A-courses.
A-208 Aircraft and Pilot Approval	• Added A-208 as a requirement for Aviation Dispatcher. • Increased course length from 2 to 3 hours.
A-225 IAT Instructor Update	• Increased course length from 1.5 to 2.0 hours. • Clarified A-225 IAT Instructor Update requirements (every 3 years). • External equivalency for Instructor Training Courses (e.g. M-410) can be submitted via Student Transcript Tab on https://www.iat.gov/help/equiv/equivalency_guide.asp
A-312 Water Ditching & Survival Instructor	• Revised course (2018) and clarified language for qualifying A-312 instructors and maintaining instructor qualifications.
OAS-105 Interagency Aviation Training (IAT) Instructor Evaluation and Certification https://www.iat.gov/docs/oas-105.pdf	• Instructor evaluators will complete and submit an OAS-105, Interagency Aviation Training (IAT) Instructor Evaluation form to the DOI OAS-Training Branch (TB), or USFS National Aviation Training Program Manager (USFS ATPM) with a recommendation for certification. A separate evaluation via OAS-105 must be completed for each course an individual wishes to instruct.
FS509–CRM 7 Skills Train-the-Trainer	• Added course and description.
Aviation Manager	• Training requirements clarified for DOI—all National, Regional/State, Aviation managers. Reinforces common practices currently in place by the bureaus, and provides clear direction for new RAM/SAM employees.
Helibase Manager (HEBM-NWCG)	• NWCG updated position pneumonic from HEB 1/HEB 2 to HEBM.
IAT Instructor	• Formally recognized adjunct instructors. Updated language for maintaining instructor currency. • Also requires an evaluation (OAS-105) for each A-course an individual wishes to instruct.
IAT Position Requirements Matrix	• Updated course name, length, and added UAS courses.
IAT Instructor vs. NWCG Instructor	• Clarified language related to IAT Instructor certification which is different from National Wildfire Coordinating Group (NWCG) Instructor qualifications.

Forest Service **Washington Office** **1400 Independence Avenue, SW**
Washington, D.C. 20250

File Code: 5700 **Date:** JAN 28 2020
Route To:

Subject: Approval of the 2019 Interagency Aviation Training Guide

To: Regional Foresters, Station Directors, IITF Director, Deputy Chiefs and WO Directors

The 2019 Interagency Aviation Training Guide, part of the Interagency Aviation Training, Qualifications, and Currency System for natural resource and firefighting employees within the Department of Interior, U.S. Department of Agriculture's Forest Service, and recognized partners is approved and shall be complied with per direction found in the Forest Service Manual 5700-Aviation Management.

Forest Service aviation training is essential to provide standardization, proficiency, and risk management to aircraft pilots (both contract and employee), aviation users, supervisors, and managers. National Wildfire Coordinating Group guides the fire qualifications (Forest Service Fire and Aviation Qualifications Guide) while the Interagency Aviation Training Guide regulates the other aviation qualifications. Personnel serving in National Wildfire Coordinating Group positions shall meet the qualification and currency requirements listed in PMS 310-1, the Forest Service Fire and Aviation Qualifications Guide, Forest Service Manual 5700, and Forest Service Handbook 5709.16.

Forest Service employees shall comply with the standards and procedures set forth in this 2019 Interagency Aviation Training Guide as well as all other Forest Service policy specific to aviation operations. The Interagency Qualifications Guide can be found at (https://www.iat.gov).

Change recommendations, clarifications, and questions should be directed to Branch Chief-Aviation Strategic Risk, Aaron Schoolcraft at 202-302-4518 or aaron.schoolcraft@usda.gov.

John Phipps
JOHN PHIPPS
Deputy Chief, State and Private Forestry

Enclosure

cc: Regional Fire Directors, Shawna Legarza, Regional Aviation Officers, Regional Aviation Safety Managers, Jeff Power, Paul Linse, Rock Parrilla, Mary Verry, John Nelson, Paul Linse, Aaron Schoolcraft, Kent Hamilton, and Tonya Rymer

USDA
America's Working Forests – Caring Every Day in Every Way
Printed on Recycled Paper

Table of Contents

page

Part 1—Education, Qualification, and Currency System 1

Introduction 1

Description of the System 2

IAT Courses 2

Equivalencies 2

Responsibilities 3

Currency Requirements 3

IAT Aviation Positions 4

Part 2—Position Descriptions and Required Courses 5

Aircrew Member 5

Aviation Dispatcher 6

Aviation Manager 7

Fixed-Wing Flight Manager 8

Fixed-Wing Flight Manager—Special Use 9

Flight Follower 10

Helicopter Flight Manager (DOI, only) 10

Helicopter Manager—Resource 11

Line Manager (DOI, only) 12

Project Aviation Manager 13

Supervisor 14

DOI Remote Pilot (UAS) 14

USDA-FS Remote Pilot (UAS) 15

Part 3—Interagency Aviation Training Instructor Certification 16

Part 4—Course Catalog **20**

100 Level Courses **20**

A-100 Basic Aviation Safety (All Aircraft) 20
A-102 USDA-FS Alaska Region Fixed-Wing Safety 20
A-103 FAA NOTAM System 21
A-104 Overview of Aircraft Capabilities and Limitations (Helicopter/Fixed-Wing) 21
A-107 Aviation Policy and Regulations I 21
A-109 Aviation Radio Use 22
A-110 Aviation Transportation of Hazardous Materials (HAZMAT) 22
A-112 Mission Planning and Flight Request Process 23
A-113 USDA-FS Crash Survival for R-10 (Alaska Region) Employees 23
A-115 Automated Flight Following (AFF) 23
A-116 General Awareness Security Training 23
A-117 Fixed-Wing Hand Signals 24

200 Level Courses **25**

A-200 Mishap Review 25
A-202 Interagency Aviation Organizations 25
A-203 Basic Airspace 26
A-204 Aircraft Capabilities and Limitations (Helicopters/Fixed Wing) 26
A-205 Risk Management I 27
A-207 Aircraft Flight Scheduling 27
A-208 Aircraft and Pilot Approval 27
A-209 Helicopter Operations 28
A-218 Aircraft Pre-Use Inspection 28
A-219 Helicopter Transport of External Cargo 29
A-220 Train-the-Trainer 29
A-223 Water Ditching and Survival Train-the-Trainer 30
A-225 IAT Instructor Update 30

300 Level Courses **31**
A-302 Personal Responsibility and Liability 31
A-303 Human Factors in Aviation 31
A-304 Aircraft Maintenance 32
A-305 Risk Management II 32
A-306 Aviation Contract Administration I & II 33
A-307 Aviation Policy and Regulations II 33
A-309 Helicopter Flight Manuals 34
A-310 Overview of Crew Resource Management 34
A-311 Aviation Planning 35
A-312 Water Ditching and Survival 35
A-314 Aviation Program Overview for Forest Service Agency Administrators 35
A-325R Water Ditching and Survival Academic Refresher 36

Management Level Courses (DOI, only) **37**
M-2 Aviation Management Line Managers Briefing 37
M-3 Aviation Management Training for Supervisors 37

400 Level Courses **38**
A-450 Small Unmanned Aircraft System (sUAS) Basic Remote Pilot Course 38
A-452R Small Unmanned Aircraft System (sUAS) Remote Pilot Refresher Training 38
A-454 Small Unmanned Aircraft System (sUAS) Add-on Course 39
A-455 Overview of Small Unmanned Aircraft System (sUAS) Operations 39

USDA-FS Required Courses **40**
N9059 Crew Resource Management 7 Skills (FS) 40
RT9059F Crew Resource Management 7 Skills—Refresher (FS) 40
FS9059 Crew Resource Management (CRM) 7 Skills Train-the-Trainer (FS) 41

Appendix 1—Interagency Aviation Training (IAT) Courses 42
Appendix 2—Interagency Aviation Training (IAT) Position Requirements Matrix 44
Appendix 3—One-Way S-Course (NWCG) to A-Course IAT Equivalency Matrix 47
Appendix 4—One-Way NWCG Position to IAT Position Crosswalk 48

Part 1—Education, Qualification, and Currency System

Introduction

The Interagency Aviation Training (IAT) Education, Qualification, and Currency System (https://www.iat.gov) contains established aviation training standards and records for natural resource and firefighting employees within the Department of the Interior (DOI), U.S. Department of Agriculture's Forest Service (USDA-FS), and recognized partners. The Interagency Aviation Training Subcommittee (IATS) Executive Aviation Committee (EAC) and the Executive Aviation Subcommittee (EAS), in conjunction with its partners, provides national leadership to establish and disseminate interagency aviation training standards for natural resource agency personnel in support of safe, effective, and efficient use of aviation resources. Aviation training is the primary, proactive method of improving efficiency and safety through increased employee awareness of agency policy, procedures, and safe practices. The IAT system is managed by the Office of the Secretary's Office of Aviation Services (OAS) and is for all DOI, USDA-FS, and recognized partners, which may include contractors, states, and other federal agencies.

The objectives of this system are:

- Establish minimum training, skills, knowledge, and currency requirements for agency personnel who work with aircraft, or have aviation duties, including managers and supervisors, in order to accomplish fire and resource (non-fire) missions.
- Provide a forum for interagency coordination in the development and implementation of aviation education, training, and qualification standards.
- Recommend standards and guidelines for aviation training in relation to the Interagency Aviation Training (IAT) Education, Qualification, and Currency System.
- Establish and maintain best practices in education and training methods and techniques. These include: direct instruction, web-based distance learning, and the media and technology necessary to support both.
- Establish and maintain minimum interagency standards for aviation qualification, certification, and documentation.
- Establish qualifications and currency standards for interagency aviation trainers (IATs).

Description of the System

The Interagency Aviation Training system is a "content-based" training system.

The IAT program is a “non-fire” system, distinct from the National Wildfire Coordinating Group's (NWCG) Wildland Fire Qualification System (310-1). All wildland fire positions remain under the 310-1 system.

Personnel serving in NWCG positions need only to meet the qualification and currency requirements outlined in the 310-1. However, some 310-1 training courses will supplement or serve as creditable substitutes for training required under the IAT System, and some IAT courses are included in NWCG curricula. Individuals holding current qualification under the Incident Qualification and Certification System (IQCS) (a performance-based system) are also qualified to perform equivalent non-fire, and/or resource aviation positions under IAT guidelines, and DO NOT require additional Interagency Aviation Training.
(See One-Way S-Course (NWCG) to A-Course(s) IAT Equivalency Matrix)

Interagency Aviation Training requirements include completion and currency of all required training courses to function in a specific aviation-related position. The aviation training subject matter is designed to be progressive and build upon past training.

IAT Courses

This system is made up of IAT Courses of specific aviation-related subject matter. Each course is designed to stand alone or can be combined with other courses to create a curriculum-like approach. Courses are provided in a variety of methods (Instructor Led/Classroom, Online, Webinar, Video Conference, etc.).

Equivalencies

Requests for course or instructor equivalencies, for the Department of the Interior (DOI) and USDA Forest Service (USDA-FS), shall be routed to the DOI Office of Aviation Services (OAS) Chief, Aviation Safety, Training, and Program Evaluations Division (ASTPE), or USDA-FS Aviation Training Program Manager (ATPM), through the employee’s chain of command (e.g. Supervisor, Bureau/Regional Aviation Manager (BAM/RAM), National Aviation Manager (NAM). Requests shall include supporting documents from the bureau or agency and be signed and routed by the appropriate person in their respective National Aviation Office.

Responsibilities

The education, training, and qualification of personnel at all organizational levels are the responsibility of management. Managers and supervisors must be aware of policy as it relates to aviation programs for which they are responsible. Oversight of this critical aviation accident prevention effort requires a balanced partnership between DOI/USDA-FS aviation management and bureau/agency management.

Bureau/Agency Responsibilities: Bureau/agency managers are responsible for ensuring that all employees involved in the use or control of aviation resources receive an appropriate level of aviation safety training. The education and training listed in this document are the minimum for promoting aircraft accident prevention awareness and developing operational and management skills. Identification, development, and presentation by bureaus/agencies of additional training unique to their specific programs shall be accomplished as required. Bureaus/Agencies shall:

1. Ensure managers provide adequate resources and time for employees and/or those over whom they have operational control (volunteers, cooperators, students, etc.) to effectively perform their jobs in a safe manner.

2. Ensure employees, volunteers, cooperators, students, etc. have received required aviation training prior to participating in, or overseeing, aviation operations.

3. Ensure bureau/agency aviation training instructors are certified per this document and comply with required course management processes.

4. Designate bureau/agency aviation personnel to coordinate with OAS Training Branch (OASTB) in the development and implementation of aviation training courses.

5. Provide bureau/agency representation to aviation training workgroups and the Interagency Aviation Training Sub-Committee (IATS), as required.

Currency Requirements

Certain courses require currency and must be repeated as indicated in the position descriptions and the IAT Position Requirements Matrix. Courses without a currency requirement (e.g. 2, 3 for every two or three years) in the position descriptions (marked with an X in the matrix), require completion only one time.

IAT Aviation Positions

The positions listed below require specific skills and knowledge to perform aviation duties and ensure safety. Personnel shall only be assigned to positions in which they have been successfully trained (and are qualified and current).
[Click the titles below to see the requirements for each position.]

It is up to the USDA-FS and each DOI bureau to determine positions they will utilize, based on organizational needs and mission objectives, as identified in agency policy documents.

Aircrew Member

Aviation Dispatcher

Aviation Manager

Fixed-Wing Flight Manager

Fixed-Wing Flight Manager—Special Use

Flight Follower

Helicopter Flight Manager (DOI Only per OPM-04)

Helicopter Manager—Resource

Line Manager (DOI Only per OPM-04)

Project Aviation Manager

Supervisor

DOI Remote Pilot (UAS)

USDA-FS Remote Pilot (UAS)

Part 2—Position Descriptions and Required Courses

Given the diversity of aviation programs across the DOI and USDA-FS, it is recommended that users contact their agency aviation management to determine what positions they will be expected to fulfill in order to complete their missions.

There are five positions which have required training for DOI and other personnel participating in manned and unmanned aircraft activities. These five positions are: Aircrew Member, Aviation Manager, Flight Follower, Line Manager, and Supervisor.

Aviation safety training is required for positions identified in the Interagency Aviation Training Guide.

All managers and supervisors having oversight of personnel and programs using aviation resources for mission accomplishment, must comply with required aviation training.

Individuals identified in more than one position in the matrix (e.g. Supervisor and Aviation Manager), must take the required training for all positions that apply.

Training requirements may be more restrictive based on bureau/agency policy and procedures.

- **Reference: One-Way NWCG Position to IAT Position Crosswalk**
- **Note: (3) = Training recurrency every three (3) years, otherwise required completion only one time**
- *** (asterisk) Indicates courses with prerequisite training required/recommended prior to attendance**

Aircrew Member	
Personnel (not pilot/passenger) required to either be on board the aircraft/or attend to the loading and unloading of passengers and cargo at all landings and takeoffs—and ensure that passengers have received a safety briefing prior to all missions. In addition, they perform an active mission function during a flight to ensure the successful outcome of the mission.	
Required Training:	
A-100 (3)	Basic Aviation Safety
A-110 (3)	Aviation Transportation of Hazardous Materials (if applicable)
A-116	General Awareness Security Training
A-200 (3)	Mishap Review
A-219*	Helicopter Transport of External Cargo (if applicable)

Aviation Dispatcher	
A dispatcher who may receive, process, and place orders for aircraft, provide flight following, and other aviation support services.	
Required Training:	
A-100 (3)	Basic Aviation Safety
A-103	FAA NOTAM System
A-104	Overview of Aircraft Capabilities and Limitations
A-107	Aviation Policy and Regulations I
A-109	Aviation Radio Use
A-110 (3)	Aviation Transportation of Hazardous Materials (if applicable)
A-112	Mission Planning and Flight Request Process
A-115	Automated Flight Following
A-200 (3)	Mishap Review
A-202	Interagency Aviation Organizations
A-203*	Basic Airspace
A-204	Aircraft Capabilities and Limitations
A-205	Risk Management I
A-207	Aircraft Flight Scheduling
A-208	Aircraft and Pilot Approval
A-303	Human Factors in Aviation
A-305*	Risk Management II
A-307*	Aviation Policy and Regulations II

Aviation Manager	
A person with aviation management responsibilities for an aviation program at the unit, state, regional, or national level—serves as the focal point for aviation services and management. These include such positions as Unit Aviation Officer (UAO), Forest Aviation Officer (FAO), Unit Aviation Manager (UAM), state, regional, and national aviation program managers, and helicopter and fixed-wing operations specialists.	
Required Training:	
A-100	Basic Aviation Safety
A-103	FAA NOTAM System
A-107	Aviation Policy and Regulations I
A-110	Aviation Transportation of Hazardous Materials (if applicable)
A-112	Mission Planning and Flight Request Process
A-115	Automated Flight Following
A-116	General Awareness Security Training
A-200 (3)	Mishap Review
A-202	Interagency Aviation Organizations
A-203*	Basic Airspace
A-204	Aircraft Capabilities and Limitations
A-205	Risk Management I
A-208	Aircraft and Pilot Approval
A-218	Aircraft Pre-Use Inspection
A-302	Personal Responsibility and Liability
A-303	Human Factors in Aviation
A-305*	Risk Management II
A-306	Aviation Contract Administration Parts I & II
A-307*	Aviation Policy and Regulations II
A-310	Overview of Crew Resource Management
A-311*	Aviation Planning
Required Training for USDA-FS:	
N9059 (FS)*	Crew Resource Management 7 Skills (in lieu of A-310; Equivalency: N9059 for A-310)

Fixed-Wing Flight Manager	
A government representative who works jointly with the pilot-in-command and aircrew members to ensure safe, efficient flight management on point-to-point flights. This position does not include Special Use operations. The Flight Manager is not required to be on board for most flights. For flights that have multiple legs, or are complex in nature, a Flight Manager should be present on the entire flight.	
Required Training:	
A-100 (3)	Basic Aviation Safety
A-109	Aviation Radio Use
A-110 (3)	Aviation Transportation of Hazardous Materials (if applicable)
A-112	Mission Planning and Flight Request Process
A-116	General Awareness Security Training
A-200 (3)	Mishap Review

Fixed-Wing Flight Manager—Special Use	
A government representative who works jointly with the pilot-in-command and aircrew members to ensure safe, efficient flight management of missions other than point-to-point flying (e.g. reconnaissance, infrared, aerial photo), and other missions requiring special training and/or equipment. Refer to specific agency policy for a complete listing of Special Use missions.	
Required Training:	
A-100 (3)	Basic Aviation Safety
A-109	Aviation Radio Use
A-110 (3)	Aviation Transportation of Hazardous Materials (if applicable)
A-112	Mission Planning and Flight Request Process
A-115	Automated Flight Following
A-116	General Awareness Security Training
A-200 (3)	Mishap Review
A-204	Aircraft Capabilities and Limitations
A-205	Risk Management I
A-218	Aircraft Pre-Use Inspection
A-302	Personal Responsibility and Liability
A-303	Human Factors in Aviation
A-310	Overview of Crew Resource Management
Required Training for USDA-FS:	
N9059 (FS)	Crew Resource Management 7 Skills (in lieu of A-310; Equivalency: N9059 for A-310)

Flight Follower	
A government employee who is responsible for monitoring aircraft flight activities in accordance with DOI/bureau and USDA-FS policies. They may work in a Dispatch Center, or at a remote location, where they have the ability to monitor a flight by radio or a satellite tracking system, and the means to initiate an aircraft mishap emergency response, when needed. Additional training may be specified by each bureau or agency.	
Required Training:	
A-100 (3)	Basic Aviation Safety
A-104	Overview of Aircraft Capabilities & Limitations
A-107	Aviation Policy and Regulations I
A-109	Aviation Radio Use
A-115	Automated Flight Following
A-200 (3)	Mishap Review
A-207	Aircraft Flight Scheduling

Helicopter Flight Manager (DOI, only)	
An individual who supervises missions limited to: Point-to-Point transport of personnel to/from a developed heliport/helibase or airport, reconnaissance missions below and/or above 500 ft. AGL, landings at/or takeoffs from improved or unimproved sites.	
Required Training:	
A-100 (3)	Basic Aviation Safety
A-109	Aviation Radio Use
A-110 (3)	Aviation Transportation of Hazardous Materials (if applicable)
A-112	Mission Planning and Flight Request Process
A-115	Automated Flight Following
A-116	General Awareness Security Training
A-200 (3)	Mishap Review
A-204	Aircraft Capabilities and Limitations
A-205	Risk Management I
A-209	Helicopter Operations

Helicopter Manager—Resource	
Is responsible for coordinating, scheduling, managing, and supervising non-fire resource helicopter operations. Fire Helicopter Manager training and experience requirements are found in the PMS 310-1 and specific agency and bureau policies.	
Required Training:	
A-100 (3)	Basic Aviation Safety
A-107	Aviation Policy and Regulations I
A-109	Aviation Radio Use
A-110 (3)	Aviation Transportation of Hazardous Materials (if applicable)
A-112	Mission Planning and Flight Request Process
A-115	Automated Flight Following
A-116	General Awareness Security Training
A-200 (3)	Mishap Review
A-204	Aircraft Capabilities and Limitations
A-205	Risk Management I
A-209	Helicopter Operations
A-218	Aircraft Pre-Use Inspection
A-219*	Helicopter Transport of External Cargo (if applicable)
A-302 (3)	Personal Responsibility and Liability
A-303 (3)	Human Factors in Aviation
A-304	Aircraft Maintenance
A-305*	Risk Management II
A-307* (3)	Aviation Policy and Regulations II
A-309 (3)	Helicopter Flight Manual
A-310 (3)	Overview of Crew Resource Management
A-311*	Aviation Planning
Required Training for USDA-FS:	
N9059 (FS)	Crew Resource Management 7 Skills (in lieu of A-310; Equivalency: N9059 for A-310)
RT9059 (3)	Crew Resource Management 7 Skills (Equivalency: RT9059F for A-310*—to maintain currency)

Helicopter Manager—Resource—*cont'd.*	
Other Training that will satisfy the requirement for Helicopter Manager—Resource (Agency/Bureau specific)	
Required Training for USDA-FS:	
S-271	Helicopter Crewmember
S-372	Helicopter Management **AND** Completion of Single Resource Boss Helicopter Task Book **OR** All Hazard/Resource Helicopter Manager Task Book (Agency/Bureau specific)
RT-372 (3)	Helicopter Manager Workshop (3) to maintain currency (Agency/Bureau specific)

Line Manager (DOI, only)	
Those who are responsible and accountable for using aviation resources to support bureau programs. Knowledge required includes familiarization with the DOI aviation management program, policies, and related requirements and responsibilities. Line Managers must complete the M-2 Aviation Management Line Managers Briefing or complete the M-3 Aviation Management for Supervisors course ever 3 years (per OPM-04).	
Required Training:	
M-2 (3)	Aviation Management Line Managers Briefing
OR	
M-3 (3)	Aviation Management for Supervisors

Project Aviation Manager	
An individual who plans, organizes, and manages the aviation operations of a project utilizing aircraft. The Project Aviation Manager may, or may not, be at the site.	
Required Training:	
A-100	Basic Aviation Safety
A-107	Aviation Policy and Regulations I
A-109	Aviation Radio Use
A-110 (3)	Aviation Transportation of Hazardous Materials (if applicable)
A-112	Mission Planning and Flight Request Process
A-116	General Awareness Security Training
A-200 (3)	Mishap Review
A-204	Aircraft Capabilities and Limitations
A-205	Risk Management I
A-218	Aircraft Pre-Use Inspection
A-302	Personal Responsibility and Liability
A-305*	Risk Management II
A-307*	Aviation Policy and Regulations II
A-310*	Overview of Crew Resource Management
A-311*	Aviation Planning
Required Training for USDA-FS:	
N9059 (FS)	Crew Resource Management 7 Skills (in lieu of A-310; Equivalency: N9059 for A-310)
RT9059 (3)	CRM 7 Skills Refresher (Equivalency: RT9059F for A-310*—to maintain currency)

Supervisor	
Those who supervise employees who use aircraft to support agency programs (first and second level supervisors as determined by the agency). Knowledge required includes aviation safety, policy, risk management, and supervisory responsibilities	
DOI Required Training:	
M-3 (3)	Aviation Management for Supervisors
A-200 (3)	Mishap Review
USDA-FS Required Training:	
A-314 (3)	Aviation Program Overview FS Agency Administrators
A-200 (3)	Mishap Review

DOI Remote Pilot (UAS)	
DOI personnel who fly UAS on behalf of the Department of the Interior, must be trained per OPM-11.	
Required Training:	
A-100 (3)	Basic Aviation Safety
A-110	Aviation Transportation of Hazardous Materials (if applicable)
A-200 (3)	Mishap Review
A-202	Interagency Aviation Organizations
A-203*	Basic Airspace
A-450*	Small Unmanned Aircraft System (sUAS) Basic Remote Pilot Course
A-452R* (2)	Small Unmanned Aircraft System (sUAS) Remote Pilot Refresher Training

USDA-FS Remote Pilot (UAS)	
DOI personnel who fly UAS on behalf of the Department of the Interior, must be trained per OPM-11.	
Required Training:	
A-100 (3)	Basic Aviation Safety
A-110	Aviation Transportation of Hazardous Materials (if applicable)
A-116	General Awareness Security Training
A-200 (3)	Mishap Review
A-202	Interagency Aviation Organizations
A-203*	Basic Airspace
A-205	Risk Management I
A-450*	Small Unmanned Aircraft System (sUAS) Basic Remote Pilot Course
A-452R* (2)	Small Unmanned Aircraft System (sUAS) Remote Pilot Refresher Training

Part 3—Interagency Aviation Training Instructor Certification

As defined in the *OPM-4—Aviation User Training Program*, individuals certified to instruct the Interagency Aviation Training Program curriculum will be approved to teach courses based on the following process:

A. Objective

This part identifies minimum qualifications for instructors of courses within the Interagency Aviation Training Program. Because of the complexity and/or technicality of aviation skills needed to perform aviation missions, instructors need to possess certain knowledge, skills, and abilities to ensure information is being presented in an effective manner. Individuals who meet these standards will be approved as an instructor, authorized to instruct specific IAT courses, and provided instructor access to the Interagency Aviation Training (IAT) website.

Qualified instructors who have taught a course within the currency requirement period will receive credit for completing that course.

Individuals instructing NWCG aviation course are required to meet instructor qualifications identified in the *NWCG Field Managers Course Guide*, or individual course instructor guides.

B. Instructor Certification Requirements

1) Agency and supervisor approval.

2) Completion or approval of one of the following instructor training paths:

   a. A-220 or

   b. M-410 and A-225 or

   c. Train-the-Trainer training equivalent and experience, and A-225. In lieu of completing A-220 or M-410, potential instructors may request course/experience equivalency from their respective DOI Chief ASTPE or USFS National Aviation Training Program Manager (USFS ATPM). Requests should be routed and supported through the bureau/agency national aviation manager.

3) The instructor candidate must have successfully completed the course they wish to instruct within 36 months preceding the evaluation.

4) Prior to Instructor certification, instructors must be evaluated by the DOI OAS-Training Branch (TB), USFS National Aviation Training Program Manager (USFS ATPM), or a Bureau designee. Designee approval must be in writing.

5) Instructor evaluators will complete and submit an OAS-105, Interagency Aviation Training (IAT) Instructor Evaluation form to the DOI OAS-Training Branch (TB), or USFS National Aviation Training Program Manager (USFS ATPM) with a recommendation for certification.

   Upon successful evaluation, instructors are authorized to instruct the course for which they were evaluated.

   A separate evaluation and OAS-105 must be completed for each course an individual wishes to instruct.

   Some courses may require additional instructor prerequisites or qualifications. See Interagency Aviation Training Guide for those specific instructor prerequisites.

C. Maintaining Interagency Aviation Training Instructor Certification

Instructors must meet the following requirements to maintain certification:

1) Have agency and supervisor approval.

2) Teach at least one IAT course for which you are qualified every 36 months.

3) Complete the following course management processes:

   a. Register class on Interagency Aviation Training (IAT) website.

   b. Collect completed OAS-111, Training Course Evaluation forms.

   c. Within 90 days of course completion:

      - Submit completed OAS-106 Course Presentation Record form.
      - Record and submit student status (pass, fail, no show, or score).
      - Submit a completed OAS-113 Course Feedback form.

4) Complete an A-225 Interagency Aviation Training Instructor Update session once every 36 months.

5) Instructors who fail to meet these requirements may work with their bureau/agency aviation manager in partnership with OAS-TB to demonstrate knowledge and competency for recertification.

D. Adjunct Instructors

Adjunct Instructors may be utilized to provide limited instruction in specialized knowledge and skills at the discretion of the lead instructor or course coordinator. They must be experienced, proficient, and knowledgeable of current issues in their field of expertise. (Examples of this might include Subject Matter Experts, Contracting Officers, Solicitors, Pilot Inspectors, Maintenance Inspectors, and Accident Investigators.)

E. Water Ditching and Survival Instructors

Individuals certified to instruct the course A-312 Water Ditching and Survival.

Objective: The following identifies the minimum aviation management training qualifications for instructors to teach the A-312 course.

Certification: The following requirements (steps 1 through 5) do not need to be completed in sequence:

1) Meet criteria above, in section 8(B)(1),(2)

2) Successfully complete the A-312 course as a student.

3) Hold a current Adult CPR, AED, and basic First-Aid certificate.

4) Must complete A-223 Water Ditching and Survival Train-the-Trainer.

5) Complete the Instructor Trainee Task Book.

6) Must be evaluated instructing the A-312

   a. The final instructor certification will be documented on the OAS-105 Instructor Evaluation and Certification Form by an OAS/USFS A-223 Water Ditching and Survival Train-the-Trainer instructor or approved designee. Designee approval will be in writing from the ASTPE or USFS ATPM.

   b. A-312 classes shall be limited to two instructor trainees.

Currency:

1) Instructors must meet the requirements in 7C. Maintaining Interagency Aviation Training Instructor Certification.

2) Co-instruct an A-312 once every 36 months.

3) Provide copies of current CPR, AED, and First-Aid certificates to OAS-TB.

Recertification: Instructors who have not maintained currency (excluding First-Aid, CPR, AED) must meet the following requirements to recertify:

1) Contact OAS-TB/Bureau Leads/USFS Aviation Training Program Manager (USFS ATPM) to initiate recertification.

2) Demonstrate knowledge and competency to an OAS, USFS A-223 instructor or approved designee. Designee approval will be in writing from their respective Bureau Lead. (This may be accomplished by instructing an A-312 course.)

F. A-223 Water Ditching and Survival Train-the-Trainer Instructor

Individuals certified to instruct the course A-223.

Objective: Demonstrate skill in presenting the A-223 course curriculum and safety procedures associated with providing pool exercises.

Certification: Instructors must be:

1) Meet criteria above in section 8(B)(1),(2)

2) Qualified and current as an A-312 Water Ditching & Survival Instructor.

3) A-223 Instructors will maintain basic water rescue, or lifeguard certification.

4) A-223 Instructors are required to complete a commercial water ditching course at least once. Courses will be approved by OAS-TB, or the Bureaus, or the USFS. Commercial course curriculum shall be provided to OAS for informational purposes and to ensure there are no conflicts between commercial course instruction and agency instruction.

5) OAS-TB Training Specialists are required to complete a commercial water ditching course once every 36 months.

Part 4—Course Catalog

This Course Catalog provides the following information for each course shown:

- Course Title
- Purpose
- Course Length
- Course Prerequisites
- Instructor Requirements
  Note: Every course offered by an Instructor for the first time must receive an evaluation (OAS-105) for each new course offering. *(See Part 3 (1) (B), specifically #4-5)*

100 Level Courses

All 100-Level courses are available online at the Interagency Aviation Training (IAT) website, and may also be offered as Instructor-Led (classroom) classes, Webinar classes, or at ACE Workshop Events.

Interagency Aviation Training (IAT) website
(https://www.iat.gov/)

A-100 Basic Aviation Safety (All Aircraft)

The purpose of this course is to provide the aviation user with a foundation of knowledge, skills, and abilities, to safely utilize aircraft to accomplish agency missions. Topics include Mission Preparation and Planning, Pilot and Aircraft Briefings, Operational Safety, Post-Flight Duties, and Unmanned Aviation Systems (UAS).

Course Length: 5 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

A-102 USDA-FS Alaska Region Fixed-Wing Safety

This course was specifically designed for U. S. Department of Agriculture's Forest Service (USDA-FS) employees that utilize aircraft in the Alaska Region (Region 10) of the USDA-FS.

Course Length: 1 hour

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

A-103 FAA NOTAM System

This course will focus on:

1. Explaining the Federal Aviation Administration's (FAA) Notice to Airmen (NOTAM) System and mission appropriate NOTAMs
2. The difference between the nine temporary flight restrictions (TFR), and
3. The criteria and factors that impact a TFR

Course Length: 1 hour

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-104 Overview of Aircraft Capabilities and Limitations (Helicopter/Fixed-Wing)

This course provides a fundamental understanding of aircraft performance, capabilities, and limitations. Emphasis is placed on selecting the "right tool for the job".

Course Length: 1 hour

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-107 Aviation Policy and Regulations I

This course provides a basic overview of agency aviation policy and standards and where to find them. The course covers agency and interagency manuals, handbooks, and guides—as well as a brief summary of the Federal Aviation Regulations (FARs).

Course Length: 1 hour

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-109 Aviation Radio Use

This course provides a basic understanding on the operation of aircraft radios, including:

- VHF-AM
- Multi-channel Radios
- Agency required Radios

Also covers:

- Communications Requirements
- Radio Tones and their use
- Communications Systems within aircraft

And includes:

- Use of Air Guard
- Frequency Management
- Radio Discipline

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-110 Aviation Transportation of Hazardous Materials (HAZMAT)

This training complies with the U.S. Department of Transportation (DOT) Regulations 49 CFR 171.2 General Requirements, whereby agency employees who transport hazardous materials, by air, must receive training on the requirements and conditions under the terms of the DOT Special Permit 9198. Topics may include:

- Handling Procedures
- Policy Requirements
- Mishap Notification
- Packaging
- Identifying Hazardous Materials
- Safety Requirements

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-112 Mission Planning and Flight Request Process

This course covers the basic duties and responsibilities required when ordering and coordinating flights. Topics include:

- How to Plan for a Flight
- Information Required to Order a Flight
- Flight Manager Responsibilities
- Flight Following Requirements
- Pilot Flight and Duty Limitations
- Pilot and Aircraft Approval

Course Length: 1 hour

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-113 USDA-FS Crash Survival for R-10 (Alaska Region) Employees

This course was specifically designed for U. S. Department of Agriculture's Forest Service (USDA-FS) employees that utilize aircraft in the Alaska Region (Region 10) of the USDA-FS.

Course Length: 1 hour

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-115 Automated Flight Following (AFF)

This course provides an overview of the AFF system. Emphasis is on using the web-based application and the procedures utilized by dispatchers and aircrews.

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-116 General Awareness Security Training

This course is designed to provide students with an introduction to DOI and USDA-FS departmental aviation security requirements.

Course Length: 30 minutes

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-117 Fixed-Wing Hand Signals

This course provides a fundamental understanding of standard aircraft marshalling hand signals to be utilized by Fixed-Wing Parking Tenders. The role of the Fixed-Wing Parking Tender (FWPT) is an important element of managing aircraft movement in the vicinity of the ramp. The aircraft FWPT provides the essential visual link to assist the flight crew in positioning the aircraft correctly. The responsibility for the safe operation of the aircraft on the ground rests with the flight crew, however, the ground crew—including FWPTs—have the duty of care to provide the flight crew with the correct guidance information. In addition, to ensure that the possibility of accidental damage is mitigated with the use of best practices at all times.

Course Length: 1 hour

Course Prerequisites: None

Delivery Method: Online, ONLY

Instructor Requirements: N/A

---

200 Level Courses

All 200-Level courses are available online at the Interagency Aviation Training (IAT) website, and may also be offered as Instructor-Led (classroom) classes, Webinar classes, or at ACE Workshop Events.

Interagency Aviation Training (IAT) website
(https://www.iat.gov/)

A-200 Mishap Review

This course provides an annual overview of the National Transportation Safety Board releasable information from the DOI and USDA-FS aviation mishaps and lessons learned. Instructors authorized to teach this course are required to coordinate with the appropriate agency DOI OAS Chief ASTPE, or USDA-FS Regional Aviation Safety Manager (RASM)—for additional USDA-FS information, contact the USDA-FS ATPM.

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. Requests to offer Instructor-Led Presentation:
   a. **DOI content:** Authorization by the DOI OAS Chief ASTPE:
      1) For Bureau Aviation Safety Managers—Annually
      2) For other DOI personnel—per course offering
   b. **USDA-FS content:** Authorization from RASM or USDA-FS ATPM—Annually

A-202 Interagency Aviation Organizations

This course is designed to provide participants with knowledge of the aviation management organizations within the Department of the Interior (DOI) and the U.S. Department of Agriculture's Forest Service (USDA-FS).

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

A-203 Basic Airspace

This course covers the basics about the National Airspace System covering:

- Class A–G Airspace
- Special Use Airspace
- Military Training Routes
- Cruise Missile Routes
- Slow Routes
- LATNs
  (airspace associated with low-speed and Low-altitude training conducted by military aircrews)

Instruction will include how to read and plot on an aeronautical sectional and a Department of Defense (DOD) AP1/B flight information publication book and charts. The class focuses on mapping skills, including how to plot a latitude and longitude and convert it to a bearing and distance. Exercises involve map reading and risk management analysis of airspace.

Course Length: 3 hours

Course Prerequisites:
Read Chapter 3 of: NWCG Standards for Airspace Coordination–PMS 520
(https://www.nwcg.gov/sites/default/files/publications/pms520.pdf)

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-204 Aircraft Capabilities and Limitations (Helicopters/Fixed Wing)

This course covers the identification and basic capabilities of helicopters and airplanes, to include aircraft commonly utilized by course participants. The course identifies aircraft performance, capabilities, and limitations—also included are the four forces and the principles that effect flight. The course stresses the fundamentals of aircraft performance planning, to include:

- Weight
- Balance
- Density Altitude

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-205 Risk Management I

This course provides a basic introduction to Risk Management, Safety Management Systems (SMS), and Operational Risk Management (ORM), and the ability to apply these principles in Bureau/Agency aviation environments.

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-207 Aircraft Flight Scheduling

This course provides a basic understanding of policies and procedures so the student can successfully participate in the planning, scheduling, tracking, and completion of an aircraft flight plan.

Course Length: 1 hour

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-208 Aircraft and Pilot Approval

The purpose of this course is to provide an understanding of policy requirements and benefits associated with approving the following, prior to the agency/bureau mission:

- Aircraft
- Pilots
- Mechanics
- Support Equipment

Course Length: 3 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-209 Helicopter Operations

This course provides technical training on how to work with helicopters in a natural resource environment. Includes information on:

- Operational Planning
- Load Calculations
- Takeoff and Landing Areas
- Personnel and Cargo Transportation
- Fueling
- Specialized Missions

Course Length: 8 hours

Course Prerequisites: None

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. Helicopter Manager Resource or Helicopter Manager (HMGB-NWCG)

A-218 Aircraft Pre-Use Inspection

This course shows how to perform pre-use inspection on a helicopter and on a fixed-wing aircraft.

Course Length: 30 minutes

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-219 Helicopter Transport of External Cargo

This course provides technical training and procedures for agency personnel performing helicopter external load operations. Participants will receive classroom and field training, and will be asked to demonstrate proper procedures to safely conduct helicopter external load operations. Participants will be given the opportunity to develop the skills to safely perform hover hookups and/or longline operations, via a live helicopter. The Instructor may choose to incorporate one or both activities.

Course Length: 8 hours

Course Prerequisites:

- A-100 Basic Aviation Safety
- A-110 Aviation Transportation of Hazardous Materials (HAZMAT)
- A-116 General Awareness Security Training
- A-200 Mishap Review

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. Qualified and current as a Helicopter Manager Resource (IAT), Helicopter Manager (HMGB-NWCG), or Helicopter Flight Manager (DOI Only)

A-220 Train-the-Trainer

Interagency Aviation Trainer (IAT) qualification. This 32-hour course is designed to provide training to select employees with aviation and training backgrounds to qualify them as Interagency Aviation Trainers (IATs). Course emphasis is on increasing program knowledge and enhancing presentation skills.

Course Length: 32 hours

Course Prerequisites:

- A-100 Basic Aviation Safety—course completion within the past 12 months

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. Scheduling this course requires coordination with the DOI OAS Chief ASTPE, or USDA-FS ATPM.

A-223 Water Ditching and Survival Train-the-Trainer

This course is designed to provide participants with the knowledge and skills necessary to safely instruct the A-312 Water Ditching and Survival course. Scheduling this course requires authorization from the DOI OAS Chief ASTPE, or USDA-FS ATPM.

Course Length: 32 hours

Course Prerequisites: None

Instructor Requirements:

1. Reference Part 3 (1) (E) of IAT Guide
2. Requires authorization from the DOI OAS Chief ASTPE, or USDA-FS ATPM

A-225 IAT Instructor Update

This course designed to assist students with maintaining currency as an IAT Instructor—providing a review and update of current IAT Instructor policies and processes (i.e. IAT website course offerings webpage, class roster, instructor/student course evaluations) and training techniques that support the Instructor in successfully delivering IAT courses.

Course Length: 2 hours

Course Prerequisites: Approved as an IAT Instructor

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

300 Level Courses

All 300-Level courses are available online at the Interagency Aviation Training (IAT) website, and may also be offered as Instructor-Led (classroom) classes, Webinar classes, or at ACE Workshop Events.

Interagency Aviation Training (IAT) website
(https://www.iat.gov/)

A-302 Personal Responsibility and Liability

This course provides an understanding of personal and organizational responsibility and liability in aviation program operations.

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. Federal attorney, or solicitor

A-303 Human Factors in Aviation

This course provides the basic principles of human behavior relevant to general aviation accident prevention and the human physiological and psychological factors that affects aircrew performance.

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

A-304 Aircraft Maintenance

This course provides an overview of what aviation managers should look for to ensure that proper aircraft maintenance is being performed. Topics include:

- Roles and Responsibilities
- The Maintenance Process
- Return to Service
- Return to Contract Availability

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. Certified maintenance technician and/or Helicopter Manager Resource, or Helicopter Manager (HMGB-NWCG)

A-305 Risk Management II

This course presents the practical application of deliberate risk management techniques, tools, and resources—and how they may be used to identify hazards and to assess risks in natural resource aviation operations. Information presented will allow the students to utilize the five steps of the risk management process and the 5M Risk Model, as well as working through an operation risk scenario utilizing risk management tools. The course references relevant elements from the following:

- Air Force Pamphlet 90-803
- FAA Systems Safety Handbook—Chapter 15
- FS-BLM Aviation Risk Management Handbook 2011
- DOI OPM-06 Aviation Management Plans

Course Length: 4 hours

Course Prerequisites:

- A-205 Risk Management I

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. A-205 Qualified Instructor

A-306 Aviation Contract Administration I & II

This course covers *both* DOI AQD/USDA-FS aviation contracts, and was designed to provide participants with the knowledge and skills to administer aviation contracts.
The focus of the course will be:

- Roles and Responsibilities
- Policy
- Contract Types
- Procurement Process
- Payment
- Documentation
- Emergency Hiring of Aircraft

Course Length: 6 hours

Course Prerequisites: None

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. Contracting Officer, *ONLY*

A-307 Aviation Policy and Regulations II

This course provides participants with a working knowledge of aviation directive systems within each agency for the management and use of government aircraft
(e.g. DOI Departmental Manuals and USDA-FS Forest Service Manual 5700).

Course Length: 4 hours

Course Prerequisites: A-107 Aviation Policy and Regulations I

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-309 Helicopter Flight Manuals

This purpose of this course is to understand the layout and information contained in the Rotorcraft Flight Manual (RFM). This information is used to support performance planning requirements of the Helicopter Manager-Resource position.

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. Qualified Helicopter Inspector Pilot (HIP), Helicopter Operations Specialist (HOS), Helicopter Pilot, or
3. Helicopter Manager-Resource (IAT), or HMGB (NWCG)—previously or currently qualified *(must be evaluated)*

A-310 Overview of Crew Resource Management

This purpose of this course is to provide participants with an overview of crew resource management (CRM) skills and techniques, and to illustrate the importance of practicing CRM to accomplish safe aviation operations. Topics covered include:

- Situational Awareness
- Communication
- Teamwork
- Task Allocation
- Decision Making

> Note: USDA-Forest Service requires N9059/RT9059F, in lieu of A-310 <

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-311 Aviation Planning

This course provides aviation personnel with an overview of the aviation planning process for state and federal agencies, including how and when to prepare an Aviation Plan.

Course Length: 3 hours

Course Prerequisites: It is highly recommended that the students first complete the A-205 Risk Management I course, or have field experience in developing a Risk Assessment Worksheet Matrix, prior to taking this course.

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. Must have experience with approval of National, Regional, or Unit Aviation Plans

---

A-312 Water Ditching and Survival

This purpose of this course is to provide classroom and hands-on training to better prepare students in the event they experience an aircraft water ditching.

Course Length: 8 hours

Course Prerequisites: Participation in the pool portion of the class requires a verbal declaration of an acceptable level of fitness.

Instructor Requirements: Reference Part 3 (E) #1-6 b. of IAT Guide:
Water Ditching and Survival Instructors

Note: Two IAT qualified instructors are required on-site during pool instruction, while students are in the water.

A-314 Aviation Program Overview for Forest Service Agency Administrators

This course provides a synopsis of the following, as relates to Line Officer responsibilities:

- Aviation Policy
- Safety and Accident Prevention
- Training and Qualification Requirements of Employees
- Liability
- Procurement
- Aviation Organizations

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

---

A-325R Water Ditching and Survival Academic Refresher

This webinar course refresher provides the participants with the knowledge of the proper procedures to follow in the event of water ditching of an aircraft. This course includes discussion on the following:

- Egress
- Hypothermia
- Utilization of PFDs, Life Rafts, and Water Survival Equipment

> *This course is an academic refresher, ONLY.* <

> *This refresher course is required by the FWS, only—but other bureaus/agencies may also benefit from taking this course.* <

Course Length: 2 hours

Course Prerequisites: A-312 Water Ditching and Survival

Instructor Requirements: Reference Part 3 (1) (D) of IAT Guide

Management Level Courses (DOI, only)

All DOI Management-Level courses are available online at the Interagency Aviation Training (IAT) website, and may also be offered as Instructor-Led (classroom) classes, Webinar classes, or at ACE Workshop Events.

Interagency Aviation Training (IAT) website
(https://www.iat.gov/)

M-2 Aviation Management Line Managers Briefing

This course has been developed for Line Managers responsible for employees who utilize aircraft in performance of their duties. Areas of emphasis include:

- DOI Aviation Safety and Accident Prevention Program
- Procurement of Aviation Services
- Documentation of Payment Procedures
- Responsibilities to Employees
- Risk Management

> This course meets the DOI requirements of 352 DM (1.5 B) <

> Equivalency: Completion of M-3 will meet the M-2 requirement <

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. One-time authorization, from the DOI OAS Chief ASTPE, *is required*

M-3 Aviation Management Training for Supervisors

This course has been developed for Supervisors who are directly responsible for employees who utilize aircraft in performance of their duties. Areas of emphasis include:

- DOI Aviation Safety and Accident Prevention Program
- Procurement of Aviation Services
- Documentation of Payment Procedures
- Responsibilities to Employees
- Risk Management

> This course meets the DOI requirements of 352 DM (1.5 B) <

Course Length: 4 hours

Course Prerequisites: None

Instructor Requirements: Reference Part 3 (1) (B) of IAT Guide

400 Level Courses

All 400-Level courses are available online at the Interagency Aviation Training (IAT) website, and may also be offered as Instructor-Led (classroom) classes, Webinar classes, or at ACE Workshop Events.

Interagency Aviation Training (IAT) website
(https://www.iat.gov/)

A-450 Small Unmanned Aircraft System (sUAS) Basic Remote Pilot Course

This is the fundamental sUAS course for individuals wanting to become qualified to operate sUAS for the Department of the Interior (DOI)/U.S. Department of Agriculture's Forest Service (USDA-FS). A-450 will utilize micro-sized sUAS aircraft to provide the basic academic and flight training necessary to conduct missions as Remote Pilot-in-Command (RPIC) for DOI. It is mandatory that the required pre-work be accomplished prior to the classroom segment of the course.

> Note: For further information, contact your National Aviation Manager for guidance regarding how to begin a sUAS program.<

Course Length: 32 hours *(does NOT include required pre-work)*

Course Prerequisites: Reference OPM-11

Instructor Requirements: Reference OPM-11 and your sUAS Program Manager for guidance

A-452R Small Unmanned Aircraft System (sUAS) Remote Pilot Refresher Training

DOI Remote Pilots must complete UAS Refresher Training (A-452R), or approved equivalent, every 24 months, following the issuance of their UAS Pilot Qualification card (OAS-30U).

Current DOI/USDA-FS Remote Pilots participating in either A-450 or A452R, as a student or an instructor, will receive credit for refresher training. This training can be completed 4 months in advance, or within 30 days after, the date of expiration on the OAS-30U, and shall be documented on the Interagency Aviation Training (IAT) website (https://www.iat.gov/). Whether or not you complete A-452R before or after your expiration date, you will retain your original carding date.

Remote Pilots operating the low complexity UAS will be able to complete this requirement via distance learning opportunities. Remote Pilots operating more complex aircraft may be required to attend a refresher course in-person. For further information, see DOI OPM-11.

Course Length: 2 hours

Course Prerequisites:

1. A-450 Small Unmanned Aircraft System (sUAS) Basic Remote Pilot Course
2. Current qualification as a DOI Remote Pilot

Instructor Requirements: Reference OPM-11 and your sUAS Program Manager for guidance

A-454 Small Unmanned Aircraft System (sUAS) Add-on Course

This course is for individuals who have previously attended the DOI A-450 Basic Remote Pilot Training Course.

Primary Audience: DOI/ISDA-FS qualified pilots who want to include additional DOI-approved sUAS platforms to their DOI Remote Pilot card.

Contact your National Bureau UAS Manager for further information.

Course Length: Depends on Aircraft Type(s) desired to be added

Course Prerequisites:

1. A-450 Small Unmanned Aircraft System (sUAS) Basic Remote Pilot Course
2. Program management approval, as outlined in OPM-11
3. Current qualification as a DOI/USDA-FS Remote Pilot

Instructor Requirements: Reference OPM-11 and your sUAS Program Manager for guidance

---

A-455 Overview of Small Unmanned Aircraft System (sUAS) Operations

This course is an overview and introduction to small Unmanned Aircraft operations. It gives the participant a brief history, overview, and application of sUAS. This is *not* an operator course. This course will provide managers an overview of how to begin a sUAS program, along with the requirements for operating a sUAS in the National Airspace System, and while working for the DOI/USDA-FS.

Course Length: 2 hours

Course Prerequisites: None

Instructor Requirements: Reference OPM-11 and your sUAS Program Manager for guidance

---

N9059 Crew Resource Management 7 Skills (FS)

This course explains the importance/history of Crew Resource Management (CRM) and introduces the 7 Skills of CRM which include:

- Decision Making
- Assertiveness
- Mission analysis
- Communication
- Leadership
- Adaptability/Flexibility
- Situational Awareness

The N9059 course also promotes the understanding of these concepts through practical skills application demonstrated in facilitated scenarios throughout the course.

> N9059 meets equivalency requirements for A-310 Overview of Crew Resource Management <

> See: USFS Briefing Paper: "CRM 7 Skills" equivalent to "A-310 Overview of Crew Resource Management"—May 2015 <

Course Length: 3 hours

Course Prerequisites: None

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. FS509 Crew Resource Management 7 Skills Train-the-Trainer Course

---

RT9059F Crew Resource Management 7 Skills—Refresher (FS)

This refresher course reviews the importance/history of Crew Resource Management (CRM), and reviews and promotes the understanding of the 7 skills concepts through practical skills application demonstrated in facilitated scenarios throughout the course.

> Currency Requirements = every 3 years, per USFS Briefing Paper: "CRM 7 Skills"—May 2015 <

Course Length: 1.5 hours

Course Prerequisites: N9059 Crew Resource Management 7 Skills

Instructor Requirements:

1. Reference Part 3 (1) (B) of IAT Guide
2. FS509 Crew Resource Management 7 Skills Train-the-Trainer Course

---

FS9059 Crew Resource Management (CRM) 7 Skills Train-the-Trainer (FS)

This 24-hour CRM 7 Skills Train-the-Trainer course is a comprehensive class that provides in-depth information on the FS CRM 7 Skills program, history of CRM, and each of the 7 critical skills. This class is designed to strengthen and focus the participants' existing aviation skills and experience into that of a CRM subject matter expert. In addition, it provides a framework for the use of facilitative instructional techniques applied to case studies, that are a critical component of delivering both the Initial and Refresher CRM 7 Skills courses.

Course Length: 24 hours

Course Prerequisites:

1. A-220 or M-410
2. Completion of N9059 Crew Resource Management (CRM) 7 Skills

Instructor Requirements:

1. Prior completion of M-410 Facilitative Instructor, or comparable adult learning instruction (See Field Manager's Course Guide)
2. Ability to effectively present training
3. Desire to be a CRM 7 Skills facilitator
4. Successful completion of FS509 CRM 7 Skills Train-the-Trainer Course
5. Successful completion of a final field evaluation
   (The facilitator is provided with instructional material templates for both the Initial and the Refresher courses, with the ability to make the training specific and pertinent to their mission.)

Appendix 1— Interagency Aviation Training (IAT) Courses [Course Number/Title/Delivery Method]

Code	Course Title	Delivery Method			
		Classroom/ Instructor-Led	ACE (Aviation Centered Education)	Webinar	Online
A-100	A-100 Basic Aviation Safety	C	A		O
A-102	USFS Alaska (Region-10) Fixed-wing Safety				O
A-103	FAA NOTAM System				O
A-104	Overview of Aircraft Capabilities and Limitations				O
A-107	Aviation Policy and Regulations I				O
A-109	Aviation Radio Use				O
A-110	Aviation Transportation of Hazardous Materials				O
A-112	Mission Planning and Flight Request Process				O
A-113	USFS Crash Survival for Alaska (R-10) Employees				O
A-115	Automated Flight Following	C	A	W	O
A-116	General Awareness Security Training				O
A-117	Fixed-Wing Hand Signals				O
A-200	Mishap Review	C	A	W	O
A-202	Interagency Aviation Organizations	C		W	O
A-203*	Basic Airspace	C			O
A-204	Aircraft Capabilities and Limitations	C			O
A-205	Risk Management I	C	A	W	
A-207	Aircraft Flight Scheduling				O
A-208	Aircraft and Pilot Approval	C	A	W	
A-209	Helicopter Operations	C			
A-218	Aircraft Pre-Use Inspection	C			O
A-219*	Helicopter Transport of External Cargo	C			
A-220*	Train-the-Trainer	C			
A-223	Water Ditching and Survival Train-the-Trainer	C			
A-225	IAT Instructor Update	C	A	W	

Code	Course Title	Delivery Method			
		Classroom/ Instructor-Led	ACE (Aviation Centered Education)	Webinar	Online
A-302	Personal Responsibility and Liability	C	A	W	
A-303	Human Factors in Aviation	C	A	W	
A-304	Aircraft Maintenance	C	A	W	
A-305*	Risk Management II	C	A		
A-306	Aviation Contract Administration Parts I & II	C	A		
A-307*	Aviation Policy and Regulations II	C	A		
A-309	Helicopter Flight Manuals	C	A		
A-310	Overview of Crew Resource Management	C	A	W	
A-311*	Aviation Planning	C	A	W	
A-312	Water Ditching and Survival	C	A		
A-314	Aviation Program Overview for FS Agency Administrators	C	A	W	
A-325R*	Water Ditching and Survival Academic Refresher	C		W	
M-2	DOI Aviation Management Line Managers Briefing	C		W	
M-3	DOI Aviation Management Training for Supervisors	C	A	W	O
A-450*	Small Unmanned Aircraft System (sUAS) Basic Remote Pilot Course	C			
A-452R*	sUAS Basic Remote Pilot Course Refresher Training	C			
A-454*	Small Unmanned Aircraft System (sUAS) Add-on Course	C			
A-455	Overview of Small Unmanned Aircraft System (sUAS) Operations	C			
N9059	Crew Resource Management (CRM) 7 Skills	C	A		
RT9059F	CRM 7 Skills Refresher	C			

* Indicates courses with prerequisite training required/recommended prior to attendance.
Webinar listing—IAT Website Listing at: https://www.iat.gov/

Please see Part 4 Course Catalog for list of required training.

Appendix 2—

Interagency Aviation Training (IAT)
Position Requirements Matrix

YELLOW = OPM-04 identifies five positions which have required training for DOI and other personnel participating in manned aircraft activities. Aircrew member, Aviation Manager, Flight Follower, Line Manager, and Supervisor

BOLD/*Italics* Course Title = Available Online
X = Requires Completion Once
3 = Requires initial completion, and every 3 years

			POSITION													
		Course Length (Hours)	Aircrew Member	Aviation Dispatcher	Aviation Manager	Fixed-Wing Flight Manager	Fixed-Wing Flight Manager–Special Use	Flight Follower	Helicopter Flight Manager (DOI)	Helicopter Manager—Resource	Line Manager (DOI)	Project Aviation Manager	Supervisor (DOI)	Supervisor (FS)	DOI Remote Pilot (UAS)	USDA-FS Remote Pilot (UAS)
CODE	**COURSE TITLE**															
A-100	***Basic Aviation Safety***	5	3	3	X	3	3	3	3	3		X			3	3
A-102	***USFS Alaska Region Fixed-Wing Safety***	1	*As specified by bureau or agency policy*													
A-103	***FAA NOTAM System***	1		X	X											
A-104	***Overview of Aircraft Capabilities & Limitations***	1		X				X								
A-107	***Aviation Policy & Regulations I***	1		X	X			X		X		X				
A-109	***Aviation Radio Use***	2		X		X	X	X	X	X		X				
A-110	***Aviation Transportation of HAZMAT (*if applicable)***	2	3*	3*	X*	3*	3*		3*	3*		3*			X*	X*
A-112	***Mission Planning & Flight Request Process***	1		X	X	X	X		X	X		X				
A-113	***USFS Crash Survival for R-10 Employees***	1														
A-115	***Automated Flight Following***	2		X	X		X	X	X	X						
A-116	***General Awareness Security Training***	.5	X		X	X	X		X	X		X				X
A-200	***Mishap Review***	2	3	3	3	3	3	3	3	3		3	3	3	3	3
A-202	***Interagency Aviation Organizations***	1.5		X	X											
A-203	***Basic Airspace***	3		X	X										X	X
A-204	***Aircraft Capabilities & Limitations***	2		X	X		X		X	X		X				
A-205	Risk Management-I	2		X	X		X		X	X		X				X
A-207	***Aircraft Flight Scheduling***	1		X				X								
A-208	Aircraft and Pilot Approval	3		X	X											
A-209	Helicopter Operations (helicopter aircrew member)	8							X	X						
A-218	***Aircraft Pre-Use Inspection***	.5			X		X			X		X				
A-219	Helicopter Transport of External Cargo (*if applicable)	8	X*							X						

Appendix 2—*cont'd.*

Interagency Aviation Training (IAT)
Position Requirements Matrix

YELLOW = OPM-04 identifies five positions which have required training for DOI and other personnel participating in manned aircraft activities. Aircrew member, Aviation Manager, Flight Follower, Line Manager, and Supervisor

BOLD/*Italics* Course Title = Available Online
X = Requires Completion Once
3 = Requires initial completion, and every 3 years

CODE	COURSE TITLE	Course Length (Hours)	POSITION													
			Aircrew Member	Aviation Dispatcher	Aviation Manager	Fixed-Wing Flight Manager	Fixed-Wing Flight Manager–Special Use	Flight Follower	Helicopter Flight Manager (DOI)	Helicopter Manager—Resource	Line Manager (DOI)	Project Aviation Manager	Supervisor (DOI)	Supervisor (FS)	DOI Remote Pilot (UAS)	USDA-FS Remote Pilot (UAS)
A-220	Train-the-Trainer	32	*Reference **Part 3** Interagency Aviation Training Instructor Certification*													
A-223	Water Ditching and Survival Train-the-Trainer	32														
A-225	IAT Instructor Update	2														
A-302	Personal Responsibility & Liability	2			X		X			3		X				
A-303	Human Factors in Aviation	2		X	X		X			3						
A-304	Aircraft Maintenance	2								X						
A-305	Risk Management II	4		X	X					X		X				
A-306	Aviation Contract Administration Parts I & II	6			X											
A-307	Aviation Policy and Regulations-II	4		X	X					3		X				
A-309	Helicopter Flight Manuals	2								3						
A-310	Overview of Crew Resource Management (DOI)	2			X		X			3		X				
N9059[1]	Crew Resource Management 7 Skills *(USDA-FS, required)*	3			X		X			X		X				
RT9059F[1]	Crew Resource Management 7 Skills Refresher *(USDA-FS, optional except as indicated)*	1.5								3		3				
A-311	Aviation Planning	3			X					X		X				
A-312	Water Ditching and Survival	8	*As specified by bureau or agency policy*													
A-314	Aviation Program Overview for Forest Service Agency Administrators	3												3		
A-450	Small Unmanned Aircraft System (sUAS) Basic Remote Pilot	32													X	X
A-452R	Small Unmanned Aircraft System (sUAS) Refresher Training	2													2	2
M-3*	***Aviation Management for Supervisors–DOI***	4									3		3			
M-2*	Aviation Management Line Managers Briefing–DOI	2									3					

* Line managers must complete the M-2 Aviation Management Line Managers Briefing ***OR*** M-3 Aviation Management for Supervisors—every 3 years.

Appendix 2—*cont'd.*

Interagency Aviation Training (IAT)
Position Requirements Matrix
Courses Specific to the US Forest Service

YELLOW = OPM-04 identifies five positions which have required training for DOI and other personnel participating in manned aircraft activities. Aircrew member, Aviation Manager, Flight Follower, Line Manager, and Supervisor

BOLD/*Italics* Course Title = Available Online
X = Requires Completion Once
3 = Requires initial completion, and every 3 years

CODE	COURSE TITLE	Course Length (Hours)	POSITION													
			Aircrew Member	Aviation Dispatcher	Aviation Manager	Fixed-Wing Flight Manager	Fixed-Wing Flight Manager–Special Use	Flight Follower	Helicopter Flight Manager (DOI)	Helicopter Manager—Resource	Line Manager (DOI)	Project Aviation Manager	Supervisor (DOI)	Supervisor (FS)	DOI Remote Pilot (UAS)	USDA-FS Remote Pilot (UAS)
USFS Required Training																
A-314	Aviation Program Overview for Forest Service Agency Administrators	3												3		
N9059[1]	Crew Resource Management 7 Skills [1]in lieu of A-310	3			X		X			X		X				
RT9059F[1]	Crew Resource Management 7 Skills Refresher [1]in lieu of A-310	1.5								3		3				

Appendix 3—One-Way S-Course (NWCG) to A-Course IAT Equivalency Matrix

This matrix shows the approved one-way S-Course (NWCG) equivalents (E) for the IAT "A" Courses. It is recognized that personnel may receive aviation-related training from sources other than that found in the IAT curriculum. It is the goal of the IAT system to diminish redundancy and promote effective and efficient training. Supervisors should review the following list of DOI approved course equivalents when assessing the training needs of their employees. Outside course curriculum can be used to satisfy the requirements of the IAT Guide. It is incumbent upon the supervisor and the employee to ensure that training records are maintained that support completion of equivalency courses in place of the IAT curriculum.

			S-COURSE									
	CODE	COURSE TITLE	S-270 Basic Air Operations	S-271 Helicopter Crewmember	S-273 SEAT Manager	RT-273 SEAT Manager Refresher	S-371 Helibase Manager	S-372 Helicopter Manager	RT-372 Helicopter Manager Refresher	S-378 Air Attack Group Supervisor	S-375 Air Support Group Supervisor	S-470 Air Operations Branch Director
IAT COURSES	A-100	Basic Aviation Safety				A-Course credit based on NWCG actual course completion(s)			A-Course credit based on NWCG actual course completion(s)			
	A-104	Overview of Aircraft Capabilities & Limitations	E									
	A-107	Aviation Policy & Regulations-I										E
	A-109	Aviation Radio Use										
	A-110	Aviation Transportation of HAZMAT (if applicable)										
	A-112	Mission Planning & Flight Request Process										
	A-115	Automated Flight Following										
	A-116	General Awareness Security Training										
	A-200	Mishap Review										
	A-202	Interagency Aviation Organizations										
	A-203	Basic Airspace			E					E		
	A-204	Aircraft Capabilities & Limitations										
	A-205	Risk Management-I					E	E			E	E
	A-207	Aircraft Flight Scheduling										
	A-208	Aircraft and Pilot Approval			E							
	A-209	Helicopter Operations		E								
	A-216	Aircraft Operations Security										
	A-218	Aircraft Pre-Use Inspection			E			E				
	A-219	Helicopter Transport of External Cargo (if applicable)		E								
	A-302	Personal Responsibility & Liability										
	A-303	Human Factors in Aviation										
	A-304	Aircraft Maintenance						E				
	A-305	Risk Management-II										
	A-306	Aviation Contract Administration Parts I & II			E			E				
	A-307	Aviation Policy and Regulations-II						E				
	A-309	Helicopter Flight Manuals						E				
	A-310	Overview of Crew Resource Management										

Appendix 4—One-Way NWCG Position to IAT Position Crosswalk

NWCG Position		IAT Position									
		Aircrew Member[1]	Fixed-Wing Flight Manager	Fixed-Wing Flight Manager Special Use	Helicopter Flight Manager	Flight Follower	Helicopter Manager- Resource	Aviation Dispatcher	Project Aviation Manager	Aviation Manager	Supervisor
ACAC	Area Command Aviation Coordinator								X	X	
AOBD	Air Ops Branch Director								X	X	
ACDP	Aircraft Dispatcher					X		X			
ASGS	Air Support Group Supervisor								X	X	
ATGS	Air Tactical Group Supervisor	X	X	X							
DECK	Deck Coordinator	X									
HEBM	Helibase Manager	X			X				X		
HLCO	Helicopter Coordinator	X			X						
HECM	Helicopter Crewmember	X									
HMGB	Helicopter Manager	X	X[2]		X		X				
SEMG	SEAT Manager	X	X								

Example: As a qualified and current NWCG Air Operations Branch Director (AOBD), IAT recognizes the individual's ability to successfully function as a Project Aviation Manager or Aviation Manager for non-fire aviation jobs described in OPM-04 and the IAT Guide. However, this does not give you equivalency for the A-courses that are required for the IAT position.

Note[1]: Aircrew Member

- Helicopter qualified personnel lacking fixed-wing experience shall complete A-100 Basic Aviation Safety prior to working as an Aircrew Member for fixed wing operations.
- Fixed-wing qualified personnel lacking helicopter experience shall complete A-100 Basic Aviation Safety prior to working as an Aircrew Member for helicopter operations.

Note[2]: HMGBs wishing to act as a Fixed-Wing Flight Manager shall complete A-100 Basic Aviation Safety.