

2020 MAFFPC Wildland Fire Training Academy

Course Descriptions

Please be aware that courses may be subject to cancellation due to insufficient enrollment or instructor unavailability. Any changes or updates will be communicated to the registered students immediately.

Be sure to view the additional information noted in underlined links.

[FI-210 - Wildland Fire Origin and Cause Determination](#)

Cost: \$350

Instructor: VAS/Derek Keiser

Course Description: The primary purpose of this course is to provide a consistent knowledge and skill base for the Wildland Fire Investigator ([INVE](#)). The concepts taught in this course will help an [INVE](#) perform at an acceptable level on a national basis without regard to geographic boundaries. The course is presented by lectures, electronic presentations, field exercises, and class discussion.

Prerequisite Qualifications and Training: It is recommended that students have law enforcement or firefighter experience. An interactive, self-paced pre-course work will familiarize students with the background information necessary to successfully complete the course.

Pre-course work: This instructor-led course has pre-course work and pre-selection assessment (estimate 2 hours). Additional information about the course can be found on the [Overview page](#).

Target Group: Recommended training for experienced fire personnel and law enforcement officers with wildland fire investigation responsibilities.

[IARR - Interagency Resource Representative](#)

Cost: \$205

Instructor: EACC/Laura McIntyre-Kelly

Course Description: This class provides students with the tools and information needed to support hand crews assigned to incidents outside their local geographic area.

Prerequisite Qualifications and Training: Qualifications and experience are Agency established; required training includes: ICS 100 Introduction to ICS **AND** ICS-700 NIMS: An Introduction

Pre-course work: N/A

Target Group: Federal or State Agency employees with current or previous experience as a Crew Boss or Single Resource Boss and who have an interest in supporting assigned hand crews and representing the sending geographic area's Coordination Center.

[IROC for Dispatchers*](#)

**This course requires a nomination process prior to registration.*

Cost: \$220

Instructor: MACC/Tracy Allen

Course Description: This course will cover the process and functions needed for dispatchers to be functional with IROC, the replacement for ROSS.

Prerequisite Qualifications, Experience and Training: A Dispatch qualification such as EDRC, EDSO, EDSP, IADP, ACDP and INTS. *Before registering for this class, prospective students must submit a [NWCG Training Nomination Form](#) to the Geographic Area Training Rep at: darlene.hall@usda.gov. Successful nominees will be notified when they may register for this Academy class.*

Pre-course work: N/A

Target Group: Dispatchers currently working in a Dispatch Center or who have current dispatch qualifications, including trainees.

IROC for Incident Management Teams*

**This course requires a nomination process prior to registration.*

Cost: \$90

Instructor: MACC/Tracy Allen

Course Description: This course will cover the process and functions needed by Incident Management Team (IMT) members and Fire Staff to be functional with the sections of IROC needed for those positions.

Prerequisite Qualifications, Experience and Training: Current IMT members and Fire Staff. *Before registering for this class, prospective students must submit a [NWCG Training Nomination Form](#) to the Geographic Area Training Rep at: darlene.hall@usda.gov. Successful nominees will be notified when they may register for this Academy class.*

Pre-course work: N/A

Target Group: IMT members and fire staff that need view, print and status functionality in IROC.

L-280 - Followership to Leadership

Cost: \$155

Instructor: PAS/Chad Northcraft

Course Description: This training course is designed as a self-assessment opportunity for individuals preparing to step into a leadership role. The course combines one day of classroom instruction followed by a second day in the field with students working through a series of problem-solving events in small teams (Field Leadership Assessment Course). Topics include leadership values and principles, transition challenges for new leaders, situational leadership, team cohesion factors, ethical decision-making, and after-action review techniques. Some course delivery may be arduous in nature.

Prerequisite Qualifications and Training: Experience in incident assignments in operations or support functions **AND** successful completion of [L-180](#), Human Factors in the Wildland Fire Service.

Pre-course work: The pre-course work is based on a reading assignment that encourages students to examine how well prepared they are to lead others. The reading assignment is followed by a few questions that ask students to reflect on the reading in terms of their own situation. The intent of this reading assignment is two-fold. First, by reading this book

as pre-course work students are afforded some time to think about the topic of leadership prior to attending the course. Second, reading in order to foster continuous learning is a key strategy for individuals who desire to improve their leadership skills throughout their career, no matter what type of business or endeavor they pursue.

Target Group: Personnel desiring to be qualified as a single resource boss.

L-380 - Fireline Leadership*

*This course requires a nomination process prior to registration.

Cost: \$350

Instructor: Contractor/Adaptive Training Options

Course Description: This is a leadership development training recommendation for unit supervisors. The training is designed to provide at least 50% of the delivery time as exercises and simulations. This course will include some field exercises that are arduous in nature.

Prerequisite Qualifications and Training: Incident personnel with supervisory responsibilities. This course requires previous successful completion of L-180, Human Factors in the Wildland Fire Service. *Before registering for this class, prospective students must submit a NWCG Training Nomination Form to the Geographic Area Training Rep at: darlene.hall@usda.gov. Successful nominees will be notified when they may register for this Academy class.*

Pre-course work: Student participants should expect to spend approximately eight (8) hours completing reading and other **work assigned by the Course Coordinator/ Lead Instructor**.

Target Group: Personnel desiring to be qualified as Strike Team Leader or unit leader.

Rx-410 - Smoke Management Techniques*

*This course requires a nomination process prior to registration.

Cost: \$285

Instructor: USFWS/Lead Instructor & John Ashcraft

Course Description: This course leads students through the ecological and historical role of fire, the characteristics of smoke and the health, safety and visibility impacts of smoke. Other topics include public relations, legal requirements, meteorology, fuel consumption, smoke production dispersion modeling, and operational smoke management strategies. This course is designed to be interactive in nature. It contains a panel discussion, several exercises designed to facilitate group and class participation and case studies from a variety of fuel types and political challenges.

Prerequisite Qualifications and Training: Students should have a background in prescribed fire planning, implementing, monitoring, permitting or smoke/air regulating. *Before registering for this class, prospective students must submit a NWCG Training Nomination Form to the Geographic Area Training Rep at: darlene.hall@usda.gov. Successful nominees will be notified when they may register for this Academy class.*

Pre-course work: This instructor-led course has pre-course work (estimate 2 hours).

Target Group: Prescribed Fire Burn Boss Type 1 ([RXB1](#)), Prescribed Fire Burn Boss Type 2 ([RXB2](#)), and the Long Term Fire Analyst ([LTAN](#)). Other positions that would benefit from RX-410 include Fire Effects Monitor ([FEMO](#)), air regulators, fire ecologists, private landowners, other state and private agencies, prescribed fire consultants, fire planners.

[S-130 - Firefighter Training /L-180 - Human Factors](#)

Cost: \$285

Instructor: MDS/Chip Broadwater

Course Description: This course is designed to provide entry-level firefighters skills. Field time is encouraged, and many of the units are set up so they can be taught in either the classroom or the field. The field exercise for Unit 12 is required. A version of L-180, Human Factors on the Fireline, has been included as part of this course. Credit should be issued for both [S-130](#) and [L-180](#) upon completion of this course. **NOTE:** *If you are taking both the S-130/L-180 course AND the S-190 courses, please register for the COMBINED session for a reduced rate. If you are not an employee, but are affiliated with the state of Maryland, please contact Chris Smith at chris.smith2@maryland.gov prior to registering.*

Prerequisite Qualifications and Training: N/A

Pre-course work: N/A

Target Group: Entry-level firefighters.

[S-130/L-180/S-190, Firefighter Training and Wildland Fire Behavior \(Combined\)](#)

Cost: \$350

Instructor: MDS/Chip Broadwater

Course Description: This course is a combined class of: S-130, Basic Wildland Firefighter/L-180 Human Factors and S-190, Basic Fire Behavior. This course meets the training requirements for the Type-2 wildland firefighter. *If you are not an employee, but are affiliated with the state of Maryland, please contact Chris Smith at chris.smith2@maryland.gov prior to registering.*

Prerequisite Qualifications and Training: N/A

Pre-course work: N/A

Target Group: Entry level firefighters

[S-190 - Introduction to Wildland Fire Behavior](#)

Cost: \$90

Instructor: MDS/Chip Broadwater

Course Description: This course provides instruction in the primary factors affecting the start and spread of wildfire and recognition of potentially hazardous situations. S-190 is typically taught in conjunction with or prior to Basic Firefighter Training, [S-130](#). It is designed to meet the fire behavior training needs of a Firefighter Type 2 (FFT2) on an incident. **NOTE:** *If you are taking both the S-130/L-180 course AND the S-190 courses, please register for the COMBINED session for a reduced rate. If you are not an employee, but are affiliated with the state of Maryland, please contact Chris Smith at chris.smith2@maryland.gov prior to registering.*

Prerequisite Qualifications and Training: N/A

Pre-course work: N/A

Target Group: This Course is required for Firefighter Type 2 ([FFT2](#)), Initial Attack Dispatcher ([IADP](#)), Public Information Officer ([PIOF](#)), and Staging Area Manager ([STAM](#)).

S-211 - Portable Pumps and Water Use

Cost: \$205

Instructor: PAS/Jake Glick

Course Description: This course is designed to provide knowledge and skills to design, setup, operate, troubleshoot, and shut down portable water delivery systems. The focus is on portable pumps – it does not address water delivery for engines. Topics covered include: portable water delivery systems; equipment; roles and responsibilities; and system design and hydraulics. There is also a field exercise where students will apply what they learned in the classroom.

Prerequisite Qualifications and Training: N/A

Pre-course work: N/A

Target Group: Personnel desiring to be qualified as Firefighter Type 1 ([FFT1](#)) or Incident Commander Type 5 ([ICT5](#)), or those wanting to learn more about portable pumps and water use.

S-212 - Wildland Fire Chainsaws

Cost: \$285

Instructor: MDS/Lead Instructor TBD & WVS-Reese (Cadre)

Course Description: This is an instructor-led course intended to be presented at the local level. The course lessons provide introduction to the function, maintenance and use of internal combustion engine powered chain saws, and their tactical wildland fire application. Field exercises support entry level training for firefighters with little or no previous experience in operating a chain saw, providing hands-on cutting experience in surroundings similar to fireline situations.

Note: This course starts before on-campus meals are fully available. Please review the Meals Chart and plan accordingly.

Prerequisite Qualifications and Training: Qualified as a Firefighter Type 2 ([FFT2](#)) AND satisfactory completion of pre-course work.

Pre-course work: This course has pre-course work online (estimate 1 hour)

Target Group: Individuals desiring to be qualified as Basic Faller ([FAL3](#)), Firefighter Type 1 ([FFT1](#)), Incident Commander Type 5 ([ICT5](#)), or Felling Boss, Single Resource ([FELB](#)).

S-215 - Fire Operations in the Wildland Urban Interface

Cost: \$220

Instructor: DES/Gerald Vickers/Ozburn/Gawronski

Course Description: This is an instructor-led course intended to be presented at the local level. Instructional units include firefighter safety in the interface, managing human factors in the interface, pre-incident planning, size-up and initial strategy, structure triage, structure protection overview, tactics in the interface, tactical operations and resource use in the interface, action assessment, plan update, and after-action review.

Prerequisite Qualifications and Training: Qualified as a Firefighter Type 1 ([FFT1](#))

Pre-course work: N/A

Target Group: Designed to assist any emergency responders who will be planning for and making operational decisions during an interface incident. This course is for personnel desiring to be qualified as Incident Commander Type 4 ([ICT4](#)), Task Force Leader ([TFLD](#)), or any Strike Team Leader.

S-219 - Firing Operations

Cost: \$205

Instructor: OHS/Tom Shuman

Course Description: This course was developed using a blended approach to learning. Students are required to complete the online training portion of the course prior to taking the Instructor Led Training. The course introduces the roles and responsibilities of a Firing Boss, Single Resource ([FIRB](#)), and outlines duties of other personnel who may engage firing operations. The course discusses and illustrates common firing devices and techniques.

Prerequisite Qualifications and Training: Qualified as a Firefighter Type 2 ([FFT2](#)).

Pre-course work: Approximately 2 hours of online pre-work is required for this course.

Target Group: Personnel desiring to be qualified as Firing Boss, single resource ([FIRB](#)) and Firefighter Type 1 and 2 personnel looking to gain valuable information to conduct or participate in firing operations.

S-230 - Crew Boss (Single Resource)

Cost: \$220

Instructor: PAS/Brian Plume

Course Description: This is a classroom course designed to produce student proficiency in the performance of duties associated with the single resource boss position from initial dispatch through demobilization to the home unit. Topics include operational leadership, preparation and mobilization, assignment preparation, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization, and post-incident responsibilities.

Prerequisite Qualifications and Training: Qualified as Firefighter Type 1 ([FFT1](#)) **AND** successful completion of Intermediate Wildland Fire Behavior ([S-290](#))

Pre-course work: This instructor-led course has pre-course work (estimate 2 hours).

Target Group: Personnel desiring to be qualified as any single resource boss.

S-231- Engine Boss (Single Resource)

Cost: \$140

Instructor: WAF/Jeremy Waite

Course Description: This course was developed using a **blended approach** to learning. Students are required to complete the online training portion of the course and pass an online assessment prior to taking the Instructor Led Training (ILT). The focus of this online training is to teach knowledge and concepts. The ILT will reinforce the content learned online and provide opportunities to apply this knowledge to real-world scenarios and practical exercises. Upon completion of the ILT, students must then take and pass a final assessment in order to receive credit for the course. The final assessment covers content from both the online and ILT portions of the course.

Prerequisite Qualifications and Training: Qualified as a Firefighter Type 1 ([FFT1](#)), **AND** successful completion of S-230, Crew Boss (Single Resource) ([CRWB](#))

Pre-course work: Complete the [online component](#), including the assessment exam; estimate 6 hours

Target Group: Personnel desiring to be qualified as Engine Boss, single resource ([ENGB](#)).

S-270 - Basic Air Operations

Located at the Coyle Airfield in Chatsworth, NJ

Cost: \$155

Instructor: NJS/ Rob Gill

Course Description: This course covers aircraft types and capabilities, aviation management and safety for flying in and working with agency aircraft, tactical and logistical uses of aircraft, and requirements for helicopter take-off and landing areas.

Course Location and Accommodations: All aviation classes for the 2020 Mid Atlantic Wildland Fire Training Academy will be conducted at the Coyle Airfield in Chatsworth, New Jersey. Overnight stay is available at the Holiday Inn Manahawkin. Room cost will be the Per Diem rate of \$114.00 per night and will be available until May 8, 2020. To make reservations, guests may call 1-800-HOLIDAY (1-800-465-4329) and ask for the Holiday Inn Manahawkin (be sure to provide the group code of **AWA**) or go to www.Holidayinn/Manahawkin-LBI (enter group code of **AWA**) and enter the dates of stay.

Prerequisite Qualifications and Training: N/A

Pre-course work: This instructor-led course has pre-course work (estimate 2-4 hours).

Target Group: Personnel desiring to be qualified as Single Engine Airtanker Manager ([SEMG](#)), Helicopter Manager, Single Resource ([HMGB](#)), Aircraft Dispatcher ([ACDP](#)), and other positions that require basic knowledge of aviation operations.

S-271 - Helicopter Crewmember

Located at the Coyle Airfield in Chatsworth, NJ

Cost: \$220

Instructor: NJS/ Rob Gill

Course Description: This is a combined classroom/field course designed to provide student proficiency in all areas of the tactical and logistical use of helicopters to achieve efficiency and standardization. Topics include aviation safety, aircraft capabilities and limitations, aviation life support equipment, aviation mishap reporting, pre-flight checklist and briefing/debriefing, aviation transportation of hazardous materials, crash survival, helicopter operations, helicopter field exercise.

Course Location and Accommodations: All aviation classes for the 2020 Mid Atlantic Wildland Fire Training Academy will be conducted at the Coyle Airfield in Chatsworth, New Jersey. Overnight stay is available at the Holiday Inn Manahawkin. Room cost will be the Per Diem rate of \$114.00 per night and will be available until May 8, 2020. To make reservations, guests may call 1-800-HOLIDAY (1-800-465-4329) and ask for the Holiday Inn Manahawkin (be sure to provide the group code of **AWA**) or go to www.Holidayinn/Manahawkin-LBI (enter group code of **AWA**) and enter the dates of stay.

Prerequisite Qualifications and Training: Qualified as a Firefighter Type 2 ([FFT2](#))

Pre-course work: N/A

Target Group: Personnel desiring to be qualified as a Helicopter Crewmember ([HECM](#)).

S-390 - Introduction to Wildland Fire Behavior Calculations

Cost: \$350

Instructor: WAF/Ryan Sundberg

Course Description: This course is designed to introduce fire behavior calculations by manual methods, using nomograms and the *Fireline Handbook Appendix B: Fire Behavior*, PMS 410-2. Students gain an understanding of the determinants of fire behavior through studying inputs (weather, slope, fuels, and fuel moisture). Students also learn how to interpret fire behavior outputs, documentation processes, and fire behavior briefing components.

Prerequisite Qualifications and Training: Intermediate S-290, Wildland Fire Behavior AND be qualified as any single resource boss.

Pre-course work: This instructor-led course has pre-course work (estimate 8-10 hours) and a pre-selection assessment (estimate 2 hours).

Target Group: Personnel desiring to be qualified as Division/Group Supervisor ([DIVS](#)), Prescribed Fire Burn Boss Type 2 ([RXB2](#)), or Incident Commander Type 3 ([ICT3](#)).