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Degree: A.A. - Fire Technology
 Certificate: Fire Technology
 Firefighter Recruit Academy
 Department Certificates:
 Fire Investigation 1A
 Fire Investigation 1B
 Fire Investigation 2A
 Fire Investigation 2B

The fire technology program is dedicated to providing high quality training and educational programs for entry level and advanced level in-service instructional courses for those in paid and volunteer fire agencies. Our courses are categorized under the designations FT, FIRE, and FFS.

The FT courses, see page 286, are primarily degree/certificate applicable and include transferrable coursework to four-year colleges. These courses meet most fire agencies' minimum qualifications for employment in our region and throughout California.

The FIRE courses, see page 287, and FFS courses, see page 296, are typically offered off-campus through an affiliate agency and have special enrollment limitations, prerequisites, require a different registration process, and may not be routinely offered. These courses include California State Fire Training certificate courses managed by the California State Fire Marshal.

Fire Technology Degree and Certificate

Major Code, degree: 011127A01
 Major Code, certificate: 011127C01

Firefighting is a public safety profession that requires special knowledge of safety, rescue, emergency medical operations, and hazardous materials. This program focuses on preparing for a career in the fire service. It includes educational opportunities for those currently employed within the fire service and those within volunteer fire agencies. Courses include those required for transfer to four-year colleges, those required to meet eligibility requirements for employment, and those required for incentive salary increases.

Student Learning Outcomes

Upon completion of this program, the student will be able to:

- complete the duties of an entry level firefighter
- identify the fundamentals of the incident command system (ICS)
- compare and contrast the makeup of a moderate size fire department with a large fire department
- describe the components of firefighting personnel protective equipment (PPE)
- compare and contrast modern PPE with antiquated PPE
- analyze simulated fire situations for indicators of flashover versus backdraft potential and prescribe mitigation measures to prevent them from occurring
- assess the fundamentals of physical science as they relate to the fire services: measurements; energy and work theories; power and transfer of heat principles; the laws of matter and the conservation of energy; and the exothermic chemical reaction called combustion

- classify and compare various types of municipal water systems
- describe the fundamentals of building construction and apply this knowledge to fire situations where forcible entry and overhaul evolutions may weaken the already fire-weakened structure
- compare and contrast fire prevention versus fire suppression efforts
- draft a pre-fire plan
- evaluate and analyze the rate of fire spread in a structure fire
- explain the physical and chemical properties of fire
- describe how ICS is used by fire departments at emergencies
- compare and contrast the makeup of a fully paid department with a volunteer fire department

Career Opportunities

A variety of career opportunities are open to students who successfully complete specific portions of this program of study. Employment opportunities may be found in areas such as firefighter-paramedic, fire investigation, fire prevention, hazardous materials, public education, and firefighting.

See losrios.edu/gainful-emp-info/gedt.php?major=011127C01 for Gainful Employment Disclosure.

Requirements for Degree or Certificate 30 Units

To maximize the successful completion of this program it is suggested the student first enroll in FT 300. Other FT courses may be taken concurrently.

FT 300	Fire Protection Organization.....	3
FT 301	Fire Prevention Technology.....	3
FT 302	Fire Protection Equipment and Systems	3
FT 303	Building Construction for Fire Protection	3
FT 304	Fire Behavior and Combustion	3
FT 305	Firefighter Safety and Survival	3
And a minimum of 12 units from the following:		12

FT 110	Fire Apparatus (3)
FT 130	Fire Company Organization and Management (3)
FT 170	Fire Investigation (3)
FT 180	Rescue Practices (3)
FT 190	Fire Tactics and Strategy (3)
FT 192	Wildland Fire Control (3)
FT 310	Fire Service Hydraulics (3)
FT 320	Hazardous Materials (3)

Associate Degree Requirements: The Fire Technology Associate in Arts (A.A.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See ARC graduation requirements.

Firefighter Recruit Academy Certificate

(Offered through the Sacramento Regional Public Safety Training Center)

Major Code: 011557C01

This program provides the knowledge necessary to assume the role of firefighter with the ability to work effectively and safely with the fire environment as well as within a company in the fire department in all functions of that company. Topics include indoctrination into the fire service, general maintenance, apparatus and equipment operations, fire control, wildland firefighting, emergency vehicle operations, salvage, fire prevention and public education, fire and arson investigation, rapid intervention crew tactics, vehicle extrication, physical fitness/wellness, emergency care, and forcible entry.

Student Learning Outcomes

Upon completion of this program, the student will be able to:

- identify and describe the history, development, structure, organization and responsibility of the Fire Service
- define, identify and apply the components and principles of the Incident Command System
- explain the core values of the fire service and its duty of providing service delivery to the public
- perform preventative maintenance to fire station, apparatus and equipment
- demonstrate the use of fire department apparatus and tools within the scope of assignment
- explain and apply the basic concept of fire control, fire and arson investigation and fire communication systems
- identify and demonstrate basic skills in public education procedures and instruction
- interpret work place rules and laws regarding harassment/discrimination policies and mandated reporting procedures
- relate to wellness programs, stress management and approved academy physical fitness programs
- identify and demonstrate first responder responsibilities for handling medical emergencies
- identify first responder responsibilities for mitigation of hazardous material incidents
- choose safe driving procedures for emergency response vehicles
- apply principles of vehicle extraction
- apply fire suppression tactics and strategies
- interpret wild land fire behavior, suppression techniques and safety measures
- demonstrate firefighter rescue and survival skills

Requirements for Certificate	14 - 15 Units
FIRE 1500 Firefighter Academy	14-15

DEPARTMENT CERTIFICATES

(Offered through the Sacramento Regional Public Safety Training Center)

Fire Investigation 1A Certificate

This program provides participants with an introduction and basic overview of fire scene investigation. The focus of this course is to provide information in determining the area of fire origin in fires involving vehicles, structures, and wildland. Accidental and criminal fire causes are discussed in detail.

Student Learning Outcomes

Upon completion of this program, the student will be able to:

- distinguish the four different methods of heat transfer and compare their effects during a fire's progression
- choose the correct California Arson Law section when applying it to a factual situation
- recognize the elements necessary for the ignition and the sustained combustion of fuel and heat
- explain the elements required for an electrically caused fire to occur
- identify common scene indicators of arson and apply it to a factual situation
- describe the methodology required for a proper and thorough investigation of a structure, vehicle, and wildland fire
- differentiate between the different types of explosions and their unique effects

Requirements for Certificate	2 Units
FIRE 1670 Fire Investigation 1A, Fire Cause and Origin Determination	2

Fire Investigation 1B Certificate

This program expands on specific topics encountered by the fire investigator. These topics include detailed information on motives of fire setters; conducting a post blast scene; the investigation of a fire death; the recognition, collection, and preservation of evidence; interviewing and interrogation of witnesses and suspects; and the effect of a building's construction on the spread of fire.

Student Learning Outcomes

Upon completion of this program, the student will be able to:

- differentiate between the six common motives associated with fire setters
- examine a fire scene appraising the different safety hazardous associated with an investigation
- compare a fire scene investigation versus a post blast scene investigation
- examine a fire scene to determine the appropriate evidence to support a fire cause
- compare factures associated with an interview and an interrogation
- appraise a fire death scene to determine if a criminal act has occurred
- organize their case investigations utilizing proper case reports, resources, and insurance information

Requirements for Certificate	2 Units
FIRE 1671 Fire Investigation 1B, Techniques of Fire Investigation	2

Fire Investigation 2A Certificate

This program provides information on how to investigate, apprehend, and convict arsonists. It focuses heavily on legal case preparation. Topics include interviewing and interrogating suspects, search and seizure, warrants, courtroom demeanor, and working with the district attorney's office.

Student Learning Outcomes

Upon completion of this program, the student will be able to:

- differentiate among the three effects of an explosion
- validate an arson corpus after examining a practical fire scene
- appraise an explosion scene to determine if a criminal act has occurred
- organize a fire investigation utilizing case reports, court exhibits, and testimony
- differentiate between the U.S. Supreme Court's finding and California's Supreme Court's requirements in preparing a search warrant
- recognize the elements necessary for the ignition and the sustained combustion of fuel and heat in a practical situation
- describe the methodology and procedure required for a proper surveillance operation

Requirements for Certificate	2 Units
FIRE 1672 Fire Investigation 2A.....	2

Fire Investigation 2B Certificate

This program provides advanced instruction in fire scene investigation, case preparation, and courtroom presentation. Topics include reviewing fire scene photography, sketching, evidence collection, interviewing and interrogation, and extensive use of simulations for developing and presenting an arson case in court.

Student Learning Outcomes

Upon completion of this program, the student will be able to:

- demonstrate the proper procedure of qualifying as an expert witness in fire origin and cause
- structure interview questions with witnesses and suspects in accordance with federal and state law requirements
- identify common scene indicators of arson and apply it to a practical situation
- examine a fire scene to determine the appropriate evidence needed to support a criminal fire cause
- verify an arson corpus after examining a criminal fire scene

Requirements for Certificate	2 Units
FIRE 1673 Fire Investigation 2B.....	2

Fire Technology Courses		Units
FT 110	Fire Apparatus.....	3
FT 130	Fire Company Organization and Management	3
FT 170	Fire Investigation	3
FT 180	Rescue Practices	3
FT 190	Fire Tactics and Strategy	3
FT 192	Wildland Fire Control.....	3
FT 298	Work Experience in Fire Technology.....	1-4
FT 300	Fire Protection Organization.....	3
FT 301	Fire Prevention Technology.....	3
FT 302	Fire Protection Equipment and Systems	3
FT 303	Building Construction for Fire Protection	3
FT 304	Fire Behavior and Combustion	3
FT 305	Firefighter Safety and Survival	3
FT 310	Fire Service Hydraulics.....	3
FT 320	Hazardous Materials.....	3

Fire Fighting Training Center Courses		Units
FIRE 1084	Wildfire Powersaws Refresher (S-212) .....	.5
FIRE 1100	Fire Control 3A (Structural Fire Fighting in Acquired Structures) ...	.25
FIRE 1101	Fire Control 3B (Structural Fire Fighting in Live-fire Simulators) ...	.25
FIRE 1102	Fire Control 4 (Controlling Ignitable Liquids and Gases).....	.5
FIRE 1130	Company Officer 2A (Human Resource Management for Company Officers).....	1.75
FIRE 1131	Company Officer 2B (General Administration Functions for Company Officers) .....	.75
FIRE 1132	Company Officer 2C (Fire Inspections and Investigation for Company Officers)	1.75
FIRE 1133	Company Officer 2D (All-Risk Operations for Company Officers)	1.25
FIRE 1134	Company Officer 2E (Wildland Incident Operations for Company Officers).....	1.75
FIRE 1140	Chief Fire Officer 3A: Human Resources Management	1
FIRE 1141	Chief Fire Officer 3B: Budget and Fiscal Responsibilities.....	.5
FIRE 1142	Chief Fire Officer 3C: General Administration Functions for Chief Fire Officers .....	.75
FIRE 1143	Chief Fire Officer 3D: Emergency Service Delivery Responsibilities.....	.75
FIRE 1150	Executive Chief Fire Officer: Human Resource Management.....	1
FIRE 1151	Executive Chief Fire Officer: Community and Government Relations.....	.25
FIRE 1152	Executive Chief Fire Officer: Administration	1.25
FIRE 1153	Executive Chief Fire Officer: Emergency Services Delivery	2
FIRE 1154	Executive Chief Fire Officer: Health and Safety.....	.5
FIRE 1160	Incident Management of Major Fires.....	1.25
FIRE 1161	Incident Management of High-Rise Fires	1.5
FIRE 1162	Incident Management of the Fire Fighter Emergency .....	.75
FIRE 1500	Firefighter Academy	14-15
FIRE 1503	Firefighter Intern Recruit Academy	12-12.5
FIRE 1504	CDF Firefighter 1 Basic.....	3
FIRE 1506	Transitional Fire Academy	11.5-13.5
FIRE 1507	Firefighter II Academy	3.5
FIRE 1520	Fire Apparatus Driver/Operator 1A - Pumping Apparatus.....	1.25
FIRE 1521	Fire Apparatus Driver/Operator 1B - Pumping Apparatus Operations.....	1.25
FIRE 1522	Fire Apparatus Engineer Refresher	1.5
FIRE 1523	Emergency Vehicle Operator - Phase I .....	.25
FIRE 1524	Emergency Vehicle Operator - Phase II .....	.25
FIRE 1525	Emergency Vehicle Operator: Fire.....	.5
FIRE 1526	Fire Apparatus Driver/Operator - Aerial Apparatus.....	1.5
FIRE 1527	Fire Apparatus Driver/Operator - Tillered Apparatus.....	1
FIRE 1528	Fire Apparatus Driver/Operator - Water Tender.....	.75
FIRE 1529	Fire Apparatus Driver/Operator - Wildland Fire Apparatus.....	.5

FIRE 1554	Communicable Disease Awareness.....	.5	Fire and Forestry Services Courses	Units	
FIRE 1600	Hazmat First Responder Operational .....	.5	FFS 1500	All Hazards Operations Section Chief (S-430/E-958).....	1.5
FIRE 1601	Hazardous Materials First Responder Operational Refresher.....	.25	FFS 1501	ed States Department of Agriculture (USDA) Foundational Academy	7
FIRE 1602	Hazardous Materials Incident Commander.....	.5	FFS 1502	ed States Department of Agriculture (USDA) Core Academy.....	5.5
FIRE 1610	Hazardous Materials Technician: Module 1A: Basic Chemistry.....	2	FFS 1503	USDA Suburban Emergency Response (SUBE).....	1.25
FIRE 1611	Hazardous Materials Technician: Module 1B: Applied Chemistry.....	1.25	FFS 1510	Intermediate Incident Command System (I-300).....	.75
FIRE 1612	Hazardous Materials Technician: Module 1C: Incident Considerations.....	1.25	FFS 1511	Advanced Incident Command System (I-400).....	.75
FIRE 1613	Hazardous Materials Technician: Module 1D: Tactical Field Operations.....	1.25	FFS 1512	National Incident Management System (NIMS) ICS All-Hazards Safety Officer (E954).....	1.5
FIRE 1614	Hazardous Materials Specialist Module 1F: Special Mitigation Techniques.....	1.75	FFS 1514	Command and General Staff (S-420).....	1.5
FIRE 1615	Hazardous Materials Specialist Module 1G: Advanced Field Operations.....	.75	FFS 1516	National Incident Management System (NIMS) ICS All-Hazards Division/Group Supervisor (E960/S339).....	.75
FIRE 1621	Incident Command System (I-200).....	.5	FFS 1518	Fire Program Management (M-581).....	2
FIRE 1628	High Rise Incident Management - Basic Organization.....	.25	FFS 1519	Facilitative Instructor (M-410).....	1.25
FIRE 1631	Incident Management.....	1	FFS 1520	Helibase Manager (S-371).....	1
FIRE 1653	Instructor I: Instructional Methodology.....	1.25	FFS 1521	Helicopter Manager (S-372).....	1.25
FIRE 1654	Instructor II: Instructional Development.....	1.25	FFS 1522	Air Support Group Supervisor (S-375).....	1
FIRE 1655	Instructor III: Instructional Program Management.....	1.5	FFS 1523	Aerial Supervision (S-378).....	1.75
FIRE 1670	Fire Investigation 1A, Fire Cause and Origin Determination.....	2	FFS 1524	Helicopter Management Refresher (RT-372).....	1
FIRE 1671	Fire Investigation 1B, Techniques of Fire Investigation.....	2	FFS 1525	Air Tactical Group Supervisor (ATGS) Workshop (RT-378).....	1
FIRE 1672	Fire Investigation 2A.....	2	FFS 1530	Expanded Dispatch Support Dispatcher (D-310).....	1.5
FIRE 1673	Fire Investigation 2B.....	2	FFS 1531	Initial Attack Dispatcher (D-311).....	1.25
FIRE 1674	Fire Investigator 1A: Basic Fire Investigation.....	1.75	FFS 1532	Aircraft Dispatcher (D-312).....	1.75
FIRE 1675	Fire Investigator 1B: Evidence and Documentation.....	1.5	FFS 1533	ROSS Dispatch (NROSSD).....	1.5
FIRE 1676	Fire Investigator 1C: Preparation for Legal Proceedings.....	1.25	FFS 1534	USDA Law Enforcement Dispatch (LEDSP).....	1.5
FIRE 1682	Interagency Incident Business Management (S-260).....	.75	FFS 1540	Introduction to Wildland Fire Behavior (S-190).....	.25
FIRE 1703	Basic Wildland Fire Prevention.....	1	FFS 1541	Intermediate Wildland Fire Behavior (S-290).....	1.75
FIRE 1722	Division/Group Supervisor (S-339).....	1	FFS 1542	Introduction to Wildland Fire Behavior Calculations (S-390).....	1.5
FIRE 1723	Professional Training for Fire Service Personnel.....	7.5-9.75	FFS 1543	Advanced Fire Behavior Calculations (S-490).....	2
FIRE 1760	Low-Angle Rope Rescue Operational (LARRO).....	.5	FFS 1544	Intermediate National Fire Danger Rating System (S-491).....	1.5
FIRE 1761	Rescue Systems 1: Basic Rescue Skills.....	1	FFS 1545	Prescribed Fire Implementation (RX301).....	1
FIRE 1762	Aircraft Rescue and Firefighting (FC 5).....	1	FFS 1546	Introduction to Fire Effects (RX-310).....	1.25
FIRE 1763	Rescue Boat Operations.....	.5	FFS 1547	Prescribed Fire Plan Preparation (RX341).....	1.5
FIRE 1764	Personal Watercraft Operations.....	.5	FFS 1548	Smoke Management Techniques (RX-410).....	1.5
FIRE 1766	River and Flood Water Rescue.....	.5	FFS 1550	All Hazards Planning Section Chief (S-440/E-962).....	1.25
FIRE 1768	Vehicle Extrication.....	.75	FFS 1552	National Incident Management System (NIMS) ICS All-Hazards Resources Leader (E965/S349).....	1
FIRE 1769	Trench Rescue Technician.....	.75	FFS 1553	Incident Training Specialist (S-445).....	1
FIRE 1800	Firefighter Training (S-130).....	2	FFS 1556	Weather Information Management System (WIMS).....	1
FIRE 1801	Fire Fighter Survival.....	.25	FFS 1560	All-Hazards Logistics Section Chief (E-967).....	2
FIRE 1803	Rapid Intervention Crew Operations.....	.5	FFS 1562	Facilities Leader (S-354).....	1
FIRE 1804	Confined Space Awareness.....	.25	FFS 1563	Ground Support Leader (S-355).....	.5
FIRE 1805	Wildland Firefighting Skills.....	1.75	FFS 1564	All-Hazards Supply Leader (E-970/S-356).....	1.25
FIRE 1806	Confined Space Rescue Technician.....	1	FFS 1565	Food Leader (S-357).....	1.5
FIRE 1807	Advanced Firefighter Training (S-131).....	.5	FFS 1566	Remote Automated Weather Station (RAWS) Maintenance.....	1.25
FIRE 1808	Fire Ground Skills: Update.....	.25	FFS 1570	National Incident Management System (NIMS) ICS All-Hazards Finance/Administration Leader (E975).....	1.25
FIRE 1809	Wildland Fire Chain Saws (S-212).....	1	FFS 1571	National Incident Management System (NIMS) All-Hazards Finance/Admin Section Chief (E-973).....	1.25
FIRE 1860	Physical Fitness for Fire Service Personnel.....	1.5-3	FFS 1574	Incident Contract Project Inspector (S-262).....	.75
FIRE 1872	Basic Air Operations (S-270).....	.75	FFS 1575	Human Resource Specialist (S-340).....	1
FIRE 1873	Strike Team/Task Force Leader, All-Hazards (STEN/TFLD) (AH-330).....	1.25	FFS 1576	Incident Business Advisor (S-481).....	1
FIRE 1874	Task Force/Strike Team Leader Refresher.....	.25-.5	FFS 1580	USDA Intelligence Support Specialist (N9032).....	1.5
FIRE 1875	Fire Operations in the Wildland/Urban Interface (S-215).....	.25-.75			
FIRE 1880	Field Observer/Display Processor (S-244/S-245).....	1.5			
FIRE 1881	Helicopter Training (S217).....	1.5			
FIRE 1882	Ignition Operations (S-234).....	1			
FIRE 1883	Chainsaw Bench.....	.5			
FIRE 1884	Crew Boss (Single Resource) (Blended) (S-230).....	.25			
FIRE 1885	Firing Operations (S-219).....	1			
FIRE 1886	Engine Boss (Single Resource) (Blended) (S-231).....	.25			

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Fire Technology

(FT) Fire Technology courses are primarily degree/certificate applicable and include transferrable coursework to four-year colleges. These courses meet most fire agencies' minimum qualifications for employment in our region and throughout California.

FT 110 Fire Apparatus

3 Units

*Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Hours: 54 hours LEC*

This course covers various aspects of fire apparatus. Topics include design, typing, specifications, construction, performance capabilities, and maintenance. It also includes warning devices and the utilization of apparatus in fire service emergencies.

FT 130 Fire Company Organization and Management

3 Units

*Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Hours: 54 hours LEC*

This course explores the organization and management of a fire department and the relationship of government agencies to the fire service. It emphasizes fire service leadership from the perspective of the company officer. Topics include ethical conduct, challenges of supervision, organizational structure, communication, human resource management functions, and administrative functions.

FT 170 Fire Investigation

3 Units

*Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Hours: 54 hours LEC*

This course introduces the general practices involved in fire investigation. Topics include determining the cause of fires (accidental, suspicious, and incendiary); types of fires; related laws; introduction to incendiary fires; motives for starting fires; recognizing and preserving evidence; interviewing witnesses and suspects; and arrest, detention, and court procedures.

FT 180 Rescue Practices

3 Units

*Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Hours: 54 hours LEC*

This course focuses on the identification and management of rescue situations, such as proper utilization and awareness of equipment, tools, and techniques to handle various rescue situations. Topics include vehicle extrication, water rescue, vertical rescue, building collapse, radiation hazards, hazardous materials rescue, fire situations including rapid intervention awareness, and other emergency situations.

FT 190 Fire Tactics and Strategy

3 Units

*Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Hours: 54 hours LEC*

This course is a basic requirement for all fire suppression personnel. Topics include the principles of fire control, utilization of staffing, equipment and placement, extinguishing agents, and fire control methods on the fireground.

FT 192 Wildland Fire Control

3 Units

*Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Hours: 54 hours LEC*

This course covers all aspects of wildland fire fighting and introduces advances in technology for wildland fire suppression. Topics include fire behavior, weather conditions, topography factors, safety, prevention, extinguishing methods, initial attack, Incident Command System (ICS), communications, aircraft assistances, hand crews, and bulldozer operation.

FT 298 Work Experience in Fire Technology

1-4 Units

*Enrollment Limitation: Indentured in the Wildland Firefighter Apprenticeship Program (W.F.A.P.).
Hours: 60-300 hours LAB*

This course provides students the opportunity to work in the Wildland Firefighter Apprenticeship Program (W.F.A.P.) for the purpose of developing specific skills to meet the goals and objectives of the National Interagency Joint Apprenticeship Committee (N.I.J.A.C.). Students complete work experience hours at approved training sites. Students may take up to 16 units total across all Work Experience course offerings. This course may be repeated when there are new or expanded learning objectives. Only one Work Experience course may be taken per semester. One unit of credit is earned for each 60 hours of unpaid, or 75 hours of paid work.

FT 300 Fire Protection Organization

3 Units

*Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340
Course Transferable to CSU
Hours: 54 hours LEC*

This course provides an introduction to fire protection, its career opportunities, and related fire service fields. Topics include philosophy and history of fire protection, fire loss analysis, organization and function of public and private fire protection services, fire departments as part of local government, as well as laws and regulations affecting the fire service. Additionally, fire service nomenclature, specific fire protection functions, basic fire chemistry and physics, introduction to fire protection systems, and introduction to fire strategy and tactics, are covered. (C-ID FIRE 100X)

FT 301 Fire Prevention Technology

3 Units

*Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Course Transferable to CSU
Hours: 54 hours LEC*

This course provides fundamental knowledge relating to the field of fire prevention. Topics include history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use and application of codes and standards, plans review, fire inspections, fire and life safety education, and fire investigation. (C-ID FIRE 110X)

FT 302 Fire Protection Equipment and Systems

3 Units

*Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Course Transferable to CSU
Hours: 54 hours LEC*

This course provides information relating to sprinkler design and the operation of fire detection and alarm systems. Topics include fire cause and effect, heat and smoke control systems, sprinkler systems, water supply for fire protection, standpipe systems, and portable fire extinguishers.

**FT 303 Building Construction
for Fire Protection****3 Units**

Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Course Transferable to CSU
Hours: 54 hours LEC

This course covers the components of building construction that relate to fire safety. Specific focus is on elements of construction and the design of structures that are shown to be key factors regarding inspecting of buildings, pre-planning fire operations, and emergency operations at fires. Topics include principles of fire and smoke growth, fire resistance construction, as well as wood, ordinary, steel, and concrete construction.

FT 304 Fire Behavior and Combustion**3 Units**

Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
General Education: AA/AS Area IV
Course Transferable to CSU
Hours: 54 hours LEC

This course covers the theories and fundamentals of how and why fires start and spread, and how they are controlled. Topics include an in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques.

FT 305 Firefighter Safety and Survival**3 Units**

Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Course Transferable to CSU
Hours: 54 hours LEC

This course introduces the principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral changes throughout the emergency services profession. It emphasizes occupational health and safety of firefighters as well as their personal and organizational accountability. Topics include safety, risk management, medical and fitness standards, industry standards relating to vehicle operation and road scene safety, as well as firefighter fatality case studies and analysis. This course emphasizes best safety practices before, during, and after the emergency incident.

FT 310 Fire Service Hydraulics**3 Units**

Advisory: MATH 32 or MATH 42; AND eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Course Transferable to CSU
Hours: 54 hours LEC

This course covers the theory of water hydraulics, hydraulic distribution systems, hydraulic practices, and extinguishing agents used with fire service hydraulics. Topics include the properties of water at rest and in motion, water velocity and discharge, distribution systems, fire service pumps, friction loss calculations, engine and nozzle pressures, and fire streams. This course also focuses on standpipe systems, automatic sprinkler systems, and foam systems.

FT 320 Hazardous Materials**3 Units**

Advisory: Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
Course Transferable to CSU
Hours: 54 hours LEC

This course is an introduction to hazardous materials, including physical properties, uses in industry, and characteristics when involved in spills, fires, and accidents. It covers emergency procedures, legal requirements, and compliance with regulations. Topics include flammable and combustible liquids, flammable and non-flammable compressed gases, flammable solids and combustible metals, oxidizing agents, poison gases and liquids, radioactive substances, and corrosive materials.

Firefighting Training

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**FIRE 1084 Wildfire Powersaws
Refresher (S-212)****.5 Units**

Hours: 8 hours LEC; 8 hours LAB

This course is designed to refresh and re-certify chain saw operators in the job performance requirements of the wildfire power saw operator position in the Incident Command System and on the fire ground. Pass/No Pass only.

**FIRE 1100 Fire Control 3A (Structural Fire Fighting
in Acquired Structures)****.25 Units**

Enrollment Limitation: To enroll in this course (FIRE 1100) the student must be an employee of a federal fire fighting agency, or a member of a state or local fire agency.

Hours: 1 hours LEC; 15 hours LAB

This course is designed to develop fundamental skills in combating structure fires by providing the students with a thorough understanding of structural fire attack, utilizing an acquired structure. Topics include fire behavior, ventilation, interior attack, and exterior attack. Pass/No Pass only.

**FIRE 1101 Fire Control 3B (Structural Fire Fighting
in Live-fire Simulators)****.25 Units**

Enrollment Limitation: To enroll in this course (FIRE 1101) the student must be an employee of a federal fire fighting agency, or a member of a state or local fire agency.

Hours: 1 hours LEC; 15 hours LAB

This course is designed to develop fundamental skills in combating structure fires by providing the students with a thorough understanding of structural fire attack, utilizing a live-fire simulator. Topics include fire behavior, ventilation, interior attack, and exterior attack. Pass/No Pass only.

**FIRE 1102 Fire Control 4 (Controlling Ignitable
Liquids and Gases)****.5 Units**

Prerequisite: FIRE 1600

Enrollment Limitation: To enroll in this course (FIRE 1102) the student must be an employee of a federal fire fighting agency, or a member of a state or local fire agency.

Hours: 6.5 hours LEC; 9.5 hours LAB

This course provides the knowledge and skills that prepare a firefighter to extinguish an ignitable liquid fire, control a flammable gas fire, and develop an incident action plan for a pipeline emergency. Topics include ignitable liquid fires, flammable gas fires, pipeline emergencies, and skills exercises. Pass/No Pass only.

**FIRE 1130 Company Officer 2A
(Human Resource Management
for Company Officers)****1.75 Units**

Prerequisite: FIRE 1507 with a grade of "C" or better

Hours: 33 hours LEC; 7 hours LAB

This course provides information on the use of human resources to accomplish assignments, evaluate member performance, supervise personnel, and integrate health and safety plans, policies, and procedures into daily activities as well as the emergency scene. Topics include human resource management, and health and safety. Pass/No Pass only.

FIRE 1131 Company Officer 2B (General Administration Functions for Company Officers) .75 Units

Prerequisite: FIRE 1507 with a grade of "C" or better
Hours: 15 hours LEC; 5 hours LAB

This course provides information on general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department's role, image, and mission to the public. Topics include administration, and community and government relations. Pass/No Pass only.

FIRE 1132 Company Officer 2C (Fire Inspections and Investigation for Company Officers) 1.75 Units

Prerequisite: FIRE 1507 with a grade of "C" or better
Hours: 33 hours LEC; 7 hours LAB

This course provides information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause, and securing the incident scene and preserving evidence. Topics include orientation, fire and life safety inspections, and fire investigation. Pass/No Pass only.

FIRE 1133 Company Officer 2D (All-Risk Operations for Company Officers) 1.25 Units

Prerequisite: FIRE 1507 and 1602 with grades of "C" or better
Enrollment Limitation: Completion of Incident Command System (I-200), which is an online course offered by Federal Emergency Management Agency (FEMA).
Hours: 20 hours LEC; 20 hours LAB

This course provides information on conducting incident size-up, developing and implementing an initial plan of action involving single and multiunit operations for various types of emergency incidents to mitigate the situation following agency safety procedures, conducting preincident planning, and develop and conduct a post-incident analysis. Topics include initial Incident Action Plan (IAP), postincident analysis, operational planning, and service demands. Pass/No Pass only.

FIRE 1134 Company Officer 2E (Wildland Incident Operations for Company Officers) 1.75 Units

Prerequisite: FFS 1541, FIRE 1133, and FIRE 1507 with grades of "C" or better
Hours: 28 hours LEC; 12 hours LAB

This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating and incident action plan, and completing incident records and reports. Topics include report on conditions, ongoing incident conditions, establishing an incident command post, deploying resources, incident needs, suppression operations, personnel needs and issues, and incident records and reports. Pass/No Pass only.

FIRE 1140 Chief Fire Officer 3A: Human Resources Management 1 Unit

Enrollment Limitation: Meet the educational requirements for Company Officer, or seeking Fire Marshal Certification.
Hours: 16.3 hours LEC; 9.8 hours LAB

This course provides students with a basic knowledge of the human resources requirements related to the roles and responsibilities of a chief fire officer. Topics include developing plans for providing employee accommodation, developing hiring procedures, establishing personnel assignments, describing methods of facilitating and encouraging professional development, developing an ongoing education training program, developing promotion procedures, developing proposals for improving employee benefits, and developing a measurable accident and injury prevention program. Pass/No Pass only.

FIRE 1141 Chief Fire Officer 3B: Budget and Fiscal Responsibilities .5 Unit

Enrollment Limitation: Meet the educational requirements for Company Officer.
Hours: 9.5 hours LEC; 8.5 hours LAB

This course provides students with a basic knowledge of the budgeting requirements related to the roles and responsibilities of a Chief Fire Officer. Topics include developing a budget management system, developing a division or departmental budget, and describing the process for ensuring competitive bidding. Pass/No Pass only.

FIRE 1142 Chief Fire Officer 3C: General Administration Functions for Chief Fire Officers .75 Unit

Enrollment Limitation: Meet the educational requirements for Company Officer.
Hours: 14 hours LEC; 10 hours LAB

This course provides a basic knowledge of the administration requirements related to the roles and responsibilities of a Chief Fire Officer. Topics include directing a department record management system, analyzing and interpreting records and data, developing a model plan for continuous organizational improvement, developing a plan to facilitate approval, preparing community awareness programs, and evaluating the inspection program of the Agency Having Jurisdiction (AHJ). Pass/No Pass only.

FIRE 1143 Chief Fire Officer 3D: Emergency Service Delivery Responsibilities .75 Unit

Enrollment Limitation: Meet the educational requirements for Company Officer.
Hours: 12.5 hours LEC; 11.5 hours LAB

This course provides basic knowledge of the emergency service requirements related to the roles and responsibilities of a Chief Fire Officer. Topics include developing a plan for the integration of fire services resources, developing an agency resource contingency plan, evaluating incident facilities, supervising multiple resources, developing and utilizing an incident action plan, obtaining incident information to facilitate transfer of command, developing and conducting a post-incident analysis, and maintaining incident records. Pass/No Pass only.

**FIRE 1150 Executive Chief Fire Officer:
Human Resource Management 1 Unit**

Enrollment Limitation: Meet educational requirements for Chief Fire Officer

Hours: 19 hours LEC; 9 hours LAB

This course provides the skills and knowledge needed to perform his/her duties safely, effectively, and competently. Topics include selection and placement of human resources, development of a positive and participative member/management program, establishment and evaluation of a list of education and in-service training goals, appraisal of a member assistance program, and the evaluation of an incentive program to determine if the desired results are achieved. Pass/No Pass only.

**FIRE 1151 Executive Chief Fire Officer: Community
and Government Relations .25 Unit**

Enrollment Limitation: Meet educational requirements for Chief Fire Officer

Hours: 6.5 hours LEC; 4 hours LAB

This course introduces the skills and knowledge needed to perform his/her duties safely, effectively, and competently. Topics include assuming a leadership role in community events. Pass/No Pass only.

**FIRE 1152 Executive Chief Fire Officer:
Administration 1.25 Units**

Enrollment Limitation: Meet educational requirements for Chief Fire Officer

Hours: 21.5 hours LEC; 9 hours LAB

This course introduces the skills and knowledge needed to perform one's duties safely, effectively, and competently. Topics include developing a comprehensive, long-range plan, evaluating and projecting training requirements, assessing facility and building needs, completing a written comprehensive risk, hazard, and value analysis, and developing a plan for a capital improvement project or program. Pass/No Pass only.

**FIRE 1153 Executive Chief Fire Officer:
Emergency Services Delivery 2 Units**

Enrollment Limitation: Meet educational requirements for Chief Fire Officer

Hours: 35.5 hours LEC; 3 hours LAB

This course provides the skills and knowledge needed to perform his/her duties safely, effectively, and competently. Topics include developing a comprehensive disaster plan and a comprehensive plan for the organization to operate at a civil disturbance. Pass/No Pass only.

**FIRE 1154 Executive Chief Fire Officer:
Health and Safety .5 Units**

Enrollment Limitation: Meet educational requirements for Chief Fire Officer

Hours: 11.5 hours LEC; 3 hours LAB

This course introduces the skills and knowledge needed to perform his/her duties safely, effectively, and competently. Topic include maintaining, developing, and providing leadership for a risk management program. Pass/No Pass only.

**FIRE 1160 Incident Management
of Major Fires 1.25 Units**

Prerequisite: FFS 1510 with a grade of "C" or better

Hours: 16 hours LEC; 24 hours LAB

This course covers the knowledge, skills, and abilities for those who are responsible for command and control of dynamic and complex fireground emergencies. Topics include assuming command, situational awareness and risk assessment process, Incident Action Plan (IAP), incident organization, accountability and command worksheets, continuing, transferring, and terminating command, and simulations. Pass/No Pass only.

**FIRE 1161 Incident Management
of High-Rise Fires 1.5 Units**

Prerequisite: FIRE 1133 and 1160 with grades of "C" or better

Hours: 20.5 hours LEC; 19.5 hours LAB

This course provides knowledge, skills, and abilities required for those managing incidents occurring in large, multistory buildings. These incidents may present significant management, logistical, and safety challenges to emergency personnel. The size and complexity of the interior spaces; limited, sometimes arduous access; extended travel and response times; and the concentrated occupant load with egress challenges, all contribute to the problems faced by emergency responders. Additionally, most high-rise structures are equipped with various environmental, fire protection, and life-safety systems that require support and control. Successful emergency operations in these types of buildings also require preplanning and technical competence on the part of the emergency responders. Topics include identifying critical factors and hazards, identifying construction and fire-protection features, response roles and responsibilities, development and multi-division/group response roles and responsibilities, development and multi-branch response roles and responsibilities, and assessing and using fire and life-safety systems. Pass/No Pass only.

**FIRE 1162 Incident Management of
the Fire Fighter Emergency .75 Units**

Prerequisite: FIRE 1133 with a grade of "C" or better

Enrollment Limitation: Completion of Incident Command System (I-200), which is an online course offered by Federal Emergency Management Agency (FEMA).

Hours: 9 hours LEC; 15 hours LAB

This course provides incident management terminology and methodology that is employed during a fire fighter emergency. Topics include functions of command, critical incident factors, warning signs of a Rapid Intervention Crew (RIC) deployment, duties of the RIC, command procedures of the emergency, and post deployment considerations. Pass/No Pass only.

FIRE 1500 Firefighter Academy 14-15 Units

Enrollment Limitation: Public Safety First Aid and CPR per California Health and Safety code 1797.182 or equivalent

Hours: 137-140 hours LEC; 363-419 hours LAB

This course provides the knowledge necessary to assume the role of firefighter with the ability to work effectively and safely within a fire agency. Topics include indoctrination into the fire service, firefighter health and safety, self-contained breathing apparatus (SCBA), emergency scene operations, ropes and knots, hand and power tools, building construction and related hazards, fire behavior, fire hose use and maintenance, ground ladder operations, forcible entry, structural search and rescue operations, structural firefighting operations, ventilation techniques, overhaul, firefighter survival, wildland firefighting techniques, tools and equipment, hazardous materials, and weapons of mass destruction. This course was formerly listed as FIRE 1090 prior to September 2010. Pass/No Pass only.

**FIRE 1503 Firefighter Intern
Recruit Academy 12-12.5 Units**

Enrollment Limitation: Completion of a firefighter intern certificate.

Hours: 130 hours LEC; 270-290 hours LAB

This course is a continuation of the firefighter intern program. It provides the techniques and skills to work effectively and safely within the fire environment as well as the fire department. Topics include indoctrination into the fire service, general maintenance, apparatus and equipment operations, fire control, wildland firefighting, emergency vehicle operations, salvage, fire prevention and public education, fire and arson investigation, rapid intervention crew tactics, vehicle extrication, physical fitness/wellness, emergency care, and forcible entry. This course was formerly listed as SMFD 1121 prior to November 2010. Pass/No Pass Only.

FIRE 1504 CDF Firefighter 1 Basic**3 Units***Hours: 48 hours LEC; 18 hours LAB*

This course provides basic knowledge, skills, and demonstrated abilities as required to perform as a California Department of Forestry (CDF) Firefighter 1 Basic. Topics include fire physics and vegetation terminology, personal protective gear, self-contained breathing apparatus, ground ladders, firefighting equipment, fire shelters, wildland hose-lays, structural firefighting, and safety procedures. This course was formerly listed as FIRE 1096 prior to October 2010. Pass/No Pass only.

FIRE 1506 Transitional Fire Academy 11.5-13.5 Units

Enrollment Limitation: Acceptance into the transitional firefighter academy AND successful completion of a California State Fire Training accredited fire academy or lateral transfer from a full-time career fire department

Hours: 140 hours LEC; 205-300 hours LAB

This course provides the knowledge necessary to assume the role of firefighter with the ability to work effectively and safely with the fire environment as well as within a company in the fire department in all functions of that urban fire agency. Topics include indoctrination into a particular fire department, general maintenance, apparatus and equipment operations, fire control, wildland firefighting, emergency vehicle operations, salvage, fire prevention and public education, fire and arson investigation, rapid intervention crew tactics, vehicle extrication, physical fitness/wellness, emergency care, and forcible entry. Pass/No Pass only.

FIRE 1507 Firefighter II Academy**3.5 Units**

Enrollment Limitation: To enroll in this course (FIRE 1507) the student must be an employee of a state or local fire agency and a Certified Fire Fighter I.

Hours: 42 hours LEC; 70 hours LAB

This course provides the skills and knowledge needed for the entry-level professional fire fighter to perform one's duties safely, effectively, and competently. Topics include fire department communications, fireground operations, rescue operations, and prevention, preparedness, and maintenance. Pass/No Pass only.

FIRE 1520 Fire Apparatus Driver/Operator 1A - Pumping Apparatus**1.25 Units***Enrollment Limitation: Valid Class C California Drivers License.**Hours: 19.5 hours LEC; 20.5 hours LAB*

This course provides information on fire apparatus preventive maintenance and driving/operating. Topics include routine tests, inspections, and servicing functions, operate, reverse, maneuver, and turn a fire apparatus in a variety of conditions, and operate all fixed systems and equipment on a fire apparatus. This course was formerly listed as FIRE 1260 prior to October 2010. Pass/No Pass only.

FIRE 1521 Fire Apparatus Driver/Operator 1B - Pumping Apparatus Operations 1.25 Units*Prerequisite: FIRE 1520**Enrollment Limitation: Hold a valid Class C Firefighter Endorsed driver's license (minimum).**Hours: 18 hours LEC; 22 hours LAB*

This course provides information on pumping apparatus preventive maintenance and operations. Topics include routine tests, inspections, and servicing functions, producing hand, master, and foam fire streams, relay pump operations, and supplying water to fire sprinkler and standpipe systems. This course was formerly listed as FIRE 1261 prior to October 2010. Pass/No Pass only.

FIRE 1522 Fire Apparatus Engineer Refresher**1.5 Units***Enrollment Limitation: Must be in the position of Fire Engineer or above.**Hours: 20 hours LEC; 21 hours LAB*

This course provides updates, enhancements, and refreshes the skills required by the fire apparatus engineer. Topics include wildland firefighting, arson identification, structural firefighting, incident command, strategy and tactics on initial attack incidents, supervision, management and company officer skills. This course was formerly listed as FIRE 1010 prior to October 2010. Pass/No Pass only.

FIRE 1523 Emergency Vehicle Operator - Phase I**.25 Units***Enrollment Limitation: Completion of a State of California Fire Marshal approved Firefighter 1 academy.**Hours: 2 hours LEC; 7 hours LAB*

This course is the first phase of operating the emergency vehicle for fire personnel. The course includes skid pan exercises and vehicle driving exercises. This course was formerly listed as SMFD & SFD 1041 prior to October 2010. Pass/No Pass Only.

FIRE 1524 Emergency Vehicle Operator - Phase II**.25 Units***Hours: 2 hours LEC; 7 hours LAB*

This course is a continuation of Driver Emergency Vehicle Operator Phase I training techniques. It includes vehicle placement, steering basics, acceleration, and braking. This course was formerly listed as SMFD & SFD 1042 prior to October 2010. Pass/No Pass Only.

FIRE 1525 Emergency Vehicle Operator: Fire .5 Units*Hours: 9 hours LEC*

This course is a continuation of Emergency Vehicle Operator - Phase II training techniques. It includes apparatus inspection, safety, code 3 driving, and special considerations. This course was formerly listed as SMFD & SFD 1043 prior to October 2010. Pass/No Pass Only.

FIRE 1526 Fire Apparatus Driver/Operator - Aerial Apparatus**1.5 Units***Prerequisite: FIRE 1500 and 1520**Enrollment Limitation: Hold a valid Class C Firefighter Endorsed drivers license (minimum).**Hours: 23 hours LEC; 17 hours LAB*

This course provides information on aerial apparatus preventive maintenance and operations. Topics include routine tests, inspections, and servicing functions on the systems and components unique to an aerial apparatus, maneuvering, positioning, and stabilizing an aerial apparatus; maneuvering, positioning, and lowering the aerial device; and deploying and operating an elevated master stream. Pass/No Pass only.

FIRE 1527 Fire Apparatus Driver/Operator - Tilled Apparatus**1 Unit***Prerequisite: FIRE 1500 and 1521**Enrollment Limitation: Hold a valid Class C Firefighter Endorsed drivers license (minimum).**Hours: 13 hours LEC; 27 hours LAB*

This course provides information on operating a fire department aerial apparatus equipped with a tiller. Topics include practical driving exercises, and operating, positioning and stabilizing the apparatus from both the tractor and tiller positions. Pass/No Pass only.

FIRE 1528 Fire Apparatus Driver/Operator - Water Tender .75 Unit

Prerequisite: FIRE 1500, 1520, and 1521

Enrollment Limitation: Hold a valid Class C Firefighter Endorsed drivers license (minimum).

Hours: 7.5 hours LEC; 24.5 hours LAB

This course provides information on water tender preventive maintenance and operations. Topics include routine tests, inspections, and servicing functions unique to a water tender, maneuvering and positioning a water tender at a water shuttle fill site and establishing, maneuvering, and positioning at a water shuttle dumpsite. Pass/No Pass only.

FIRE 1529 Fire Apparatus Driver/Operator - Wildland Fire Apparatus .5 Unit

Prerequisite: FIRE 1500, 1520, and 1521

Enrollment Limitation: Hold a valid Class C Firefighter Endorsed drivers license (minimum).

Hours: 5 hours LEC; 19 hours LAB

This course provides information on preventive maintenance and operation of a wildland fire apparatus. Topics include routine tests, inspections, and servicing functions on the systems and components unique to wildland fire apparatus, and operating a wildland fire apparatus and producing an effective fire stream. Pass/No Pass only.

FIRE 1554 Communicable Disease Awareness .5 Unit

Enrollment Limitation: Currently certified as a California EMT-1

Hours: 9 hours LEC

This course provides emergency responders with communicable disease awareness. Topics include identification, recognition, communicability, prevention, and the operation of communicable diseases. This course was formerly listed as FIRE 1116 prior to November 2010. Pass/No Pass only.

FIRE 1600 Hazmat First Responder Operational .5 Unit

Hours: 14 hours LEC; 2 hours LAB

This course covers the basic strategies involving potential exposure to hazardous materials. This course also covers how to detect hazmat substances, consult references for information, and implement operational procedures. This course was formerly listed as FIRE 1068, CDF 1068, SFD 1068, and SMFD 1068 prior to April 2011. Pass/No Pass only.

FIRE 1601 Hazardous Materials First Responder Operational Refresher .25 Unit

Prerequisite: FIRE 1600

Hours: 6 hours LEC; 3 hours LAB

This course is a refresher covering the basic strategies involving potential exposure to hazardous materials. Topics include detecting hazardous material substances, consulting references for information, and implementing operational procedures. May be taken one time for credit. This course was formerly listed as CDF 1085 prior to April 2011. Pass/No Pass Only.

FIRE 1602 Hazardous Materials Incident Commander .5 Unit

Prerequisite: FIRE 1600; Proof of completion of FEMA Incident Command System (ICS) 100

Hours: 10 hours LEC; 6 hours LAB

This course provides the content related to the role of an Incident Commander (IC), during a hazardous material (hazmat) event, with the emphasis on personnel safety and management. Topics include hazmat laws and regulations, command and scene management, operational risk management, and protective actions. This course was formerly listed as CDF, FJPA, SFD, SMFD, and USDA 1091 prior to April 2011. Pass/No Pass Only.

FIRE 1610 Hazardous Materials Technician: Module 1A: Basic Chemistry 2 Units

Prerequisite: FIRE 1600

Hours: 40 hours LEC

This course provides the student with the most essential and basic aspects of chemistry and physics as they relate to successful hazardous materials incident management. Topics include basic terminology and theory of chemistry, overview of the identification and hazards of salts, hydrocarbons, and other non-salts and, most importantly, provides the student with the skills required to recognize the hazard and behavior of a material given only its chemical identification or formula. It meets standards prescribed by the CA State Fire Marshal and Office of Emergency Services. Pass/No Pass only.

FIRE 1611 Hazardous Materials Technician: Module 1B: Applied Chemistry 1.25 Units

Prerequisite: FIRE 1610

Hours: 20.3 hours LEC; 19.8 hours LAB

This course provides the student with basic terminology and theory of chemistry as it relates to hazardous materials. Topics include chemical aspects of the hazard classes, toxicology, including hazard and risk assessment, function and use of detection instruments, monitoring hazardous atmospheres, and use of a field identification kit to identify unknown solids and liquids. It meets standards prescribed by the CA State Fire Marshal and Office of Emergency Services. Pass/No Pass only.

FIRE 1612 Hazardous Materials Technician: Module 1C: Incident Considerations 1.25 Units

Hours: 18.5 hours LEC; 21.5 hours LAB

This course provides the student with on-scene incident considerations. Topics include data research, meteorological considerations, protective actions, personal protective equipment, incident command aspects, site safety concepts, legislative and regulatory measures influencing emergency response, and contingency planning. It meets standards prescribed by the CA State Fire Marshal and Office of Emergency Services. Pass/No Pass only.

FIRE 1613 Hazardous Materials Technician: Module 1D: Tactical Field Operations 1.25 Units

Prerequisite: FIRE 1612

Hours: 20 hours LEC; 20 hours LAB

This course provides the student with experience in hazardous materials tactical field operations. Topics include confinement, control, hazmat triage and sabotage, performing in chemical protective clothing, preservation of evidence, decontamination, and emergency medical system considerations. It meets standards prescribed by the CA State Fire Marshal and Office of Emergency Services. Pass/No Pass only.

FIRE 1614 Hazardous Materials Specialist Module 1F: Special Mitigation Techniques 1.75 Units

Prerequisite: FIRE 1613

Hours: 28 hours LEC; 12 hours LAB

This course is an introduction to mitigation techniques. Topics include plugging, patching and repairing methods, advanced chemical field identification testing procedures, and fixed facility repair considerations. It is part one of a two part series (including FIRE 1615) leading to certification as a Hazardous Materials Specialist. It meets requirements of CA Code of Regulations Title 8, Section 519(q). Pass/No Pass only.

**FIRE 1615 Hazardous Materials Specialist Module 1G:
Advanced Field Operations .75 Units***Prerequisite: FIRE 1614**Hours: 2 hours LEC; 38 hours LAB*

This course covers material presented in Hazardous Materials Courses 1A-1F in an environment of scenario based full scale exercises. Students are evaluated on their ability to perform and be certified as a member of a Hazardous Materials Team. Pass/No Pass only.

FIRE 1621 Incident Command System (I-200) .5 Units*Hours: 12 hours LEC; 4 hours LAB*

This class introduces the basic components of the Incident Command System (ICS) used to manage all types of emergency incidents. This management system includes common structure, responsibilities and terminology used on incidents at the local, state, and federal levels. This course was formerly listed as FIRE 1052 prior to April 2011. Pass/No Pass only.

**FIRE 1628 High Rise Incident Management -
Basic Organization .25 Units***Hours: 3.5 hours LEC; 3 hours LAB*

This course provides the content related to management of major high rise fire incidents. The content is based on curricula established at the National Fire Academy and Firefighting Resources of Southern California Organized for Potential Emergencies (FIREScope), program. This course was formerly listed as FIRE 1078 prior to April 2011. Pass/No Pass only.

FIRE 1631 Incident Management 1 Unit*Enrollment Limitation: Completion of a State of California Fire Marshal approved Firefighter 1 academy.**Hours: 20 hours LEC; 4 hours LAB*

This course provides an in-depth look into the various areas of commanding an initial attack. Topics include command presence, transfer of command, tactics and strategy, and size-up. This course was formerly listed as CDF, FJPA, SFD, and SMFD 1092 prior to April 2011. Pass/No Pass Only.

**FIRE 1653 Instructor I:
Instructional Methodology 1.25 Units***Hours: 16.5 hours LEC; 23.5 hours LAB*

This course introduces the skills and knowledge needed for the entry-level professional instructor to perform his or her duties safely, effectively, and competently. At the end of this course, candidates for certification will be able to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments. The Instructor will also be able to adapt a lesson plan and complete the reporting requirements to the local jurisdiction. Topics include instructional development, instructional delivery, evaluation and testing, and program management. Pass/No Pass only.

**FIRE 1654 Instructor II:
Instructional Development 1.25 Units***Prerequisite: FIRE 1653 with a grade of "C" or better**Hours: 14.3 hours LEC; 25.8 hours LAB*

This course introduces the skills and knowledge needed for the intermediate level professional instructor to perform his or her duties safely, effectively, and competently. Topics include developing lesson plans and evaluation instruments, teaching and delivering instruction, evaluating and coaching other instructors, analyzing resources, and formulating a program budget. Pass/No Pass only.

**FIRE 1655 Instructor III: Instructional
Program Management 1.5 Units***Prerequisite: FIRE 1653 and 1654 with grades of "C" or better**Hours: 26.8 hours LEC; 9.3 hours LAB*

This course introduces information on planning, developing, and implementing comprehensive programs and curricula. Topics include instructional development, program management, program and instructor evaluation, and test reliability and validity. Pass/No Pass only.

**FIRE 1670 Fire Investigation 1A, Fire Cause
and Origin Determination 2 Units***Hours: 40 hours LEC*

This course provides participants with an introduction and basic overview of fire scene investigation. The focus of this course is to provide information in determining the area of fire origin in fires involving vehicles, structures, and wildland. Accidental and criminal fire causes are discussed in detail. This course was formerly listed as FIRE 1240 prior to September 2010. Pass/No Pass only.

**FIRE 1671 Fire Investigation 1B, Techniques
of Fire Investigation 2 Units***Prerequisite: FIRE 1670**Hours: 40 hours LEC*

This course expands on specific topics encountered by the fire investigator. These topics include detailed information on motives of fire setters; conducting a post blast scene; the investigation of a fire death; the recognition, collection, and preservation of evidence; interviewing and interrogation of witnesses and suspects; and the effect of a building's construction on the spread of fire. This course was formerly listed as FIRE 1241 prior to September 2010. Pass/No Pass only.

FIRE 1672 Fire Investigation 2A 2 Units*Prerequisite: FIRE 1671**Hours: 40 hours LEC*

This course provides information on how to investigate, apprehend, and convict arsonists. It focuses heavily on legal case preparation. Topics include interviewing and interrogating suspects, search and seizure, warrants, courtroom demeanor, and working with the district attorney's office. This course was formerly listed as FIRE 1242 prior to September 2010. Pass/No Pass only.

FIRE 1673 Fire Investigation 2B 2 Units*Prerequisite: FIRE 1672**Hours: 40 hours LEC*

This course provides advanced instruction in fire scene investigation, case preparation, and courtroom presentation. Topics include reviewing fire scene photography, sketching, evidence collection, interviewing and interrogation, and extensive use of simulations for developing and presenting an arson case in court. This course was formerly listed as FIRE 1243 prior to September 2010. Pass/No Pass only.

**FIRE 1674 Fire Investigator 1A:
Basic Fire Investigation 1.75 Units***Prerequisite: FT 304 with a grade of "C" or better**Enrollment Limitation: On-line courses: Basic Electricity (CFITrainer.net), and Ethics and the Fire Investigator (CFITrainer.net)**Hours: 29 hours LEC; 11 hours LAB*

This course provides information on securing the fire scene and determining the origin and cause of the fire. Topics include responsibilities of a fire investigator, securing the fire ground, conducting an exterior and interior survey, analyzing fire patterns, interpreting individual fire patterns, discriminating the effects of explosions, examining and removing fire debris, reconstructing the area of origin, inspecting the performance of building systems. Pass/No Pass only.

FIRE 1675 Fire Investigator 1B:**Evidence and Documentation 1.5 Units***Prerequisite: FIRE 1674**Enrollment Limitation: On-line course: Introduction to Evidence (CFITrainer.net)**Hours: 24 hours LEC; 10 hours LAB*

This course provides information on scene documentation and evidence collection/preservation. Topics include photographing the scene, diagramming the scene, constructing investigative notes, processing evidence and establishing chain of custody, processing victims and fatalities, selecting evidence for analysis, maintaining a chain of custody, preparing a fire investigation report, and disposing of evidence. Pass/No Pass only.

FIRE 1676 Fire Investigator 1C: Preparation for Legal Proceedings 1.25 Units*Prerequisite: FIRE 1674, FIRE 1675, and PSTC 1501**Enrollment Limitation: On-line course: Motive, Means, and Opportunity: Determining Responsibility in an Arson Case (CFITrainer.net)**Hours: 19 hours LEC; 21 hours LAB*

This course provides information on legal considerations for a court proceeding. Topics include coordinating expert resources, formulating an opinion, presenting investigative findings, and testifying during legal proceedings. Pass/No Pass only.

FIRE 1682 Interagency Incident Business Management (S-260) .75 Units*Hours: 16 hours LEC*

This course provides the foundation of incident business management practices. Topics include property management, recruitment, acquisition, and accident investigation. This course was formerly listed as FIRE 1093 prior to April 2011. Pass/No Pass only.

FIRE 1703 Basic Wildland Fire Prevention 1 Unit*Hours: 24 hours LEC*

This course provides the basic methods and practices used in wildland fire prevention. Topics include fire prevention history, campfire safety, powerline safety and fire investigation. This course was formerly listed as USDA 1107 prior to April 2011. Pass/No Pass Only.

FIRE 1722 Division/Group Supervisor (S-339) 1 Unit*Prerequisite: CDF 1066 with a grade of "C" or better**Hours: 24 hours LEC*

This course provides the knowledge and skills to perform specific responsibilities as a Division/Group Supervisor within the Incident Command System. Topics include pre-incident responsibilities, incident arrival and check-in, assigned and available status, and out-of-service status and demobilization. This course was formerly listed as CDF,EGFD,FJPA,SMFD,and USDA 1086 prior to April 2011. Pass/No Pass Only.

FIRE 1723 Professional Training for Fire Service Personnel 7.5-9.75 Units*Enrollment Limitation: Completion of a State of California Fire Marshal approved Firefighter 1 academy**Hours: 84-114 hours LEC; 156-186 hours LAB*

This course provides current knowledge and techniques needed to maintain and improve fire service skills. It meets mandatory state and local training requirements. Topics may include fire service administration, suppression, emergency medical services, fire prevention, wellness and fitness, rescue, leadership/management, and command and control. This course was formerly listed as SFD and SMFD 1104 prior to April 2011. Pass/No Pass Only.

FIRE 1760 Low-Angle Rope Rescue Operational (LARRO) .5 Unit*Hours: 7 hours LEC; 17 hours LAB*

This course provides the techniques and methods for using rope, webbing, hardware friction devices, and litters in low-angle rescue situations. Topics include rope and related equipment, anchor systems, safety lines, stretcher lashing and rigging, mechanical advantage systems, and single-line and two-line rescue systems. Pass/No Pass only.

FIRE 1761 Rescue Systems 1: Basic Rescue Skills 1 Unit*Prerequisite: FIRE 1500 and 1760**Hours: 9 hours LEC; 31 hours LAB*

This course provides rescue professionals with the level of knowledge to perform urban search and rescues. Topics include team organization, rescue, and environmental considerations, use of ropes, knots rigging and pulley systems, descending, rappelling, and belaying tools and techniques, subsurface rescue techniques, use of cribbing, wedges, cutting/prying and hydraulic tools, use of fire service ladders in specialized rescue situations, and day and night simulated rescue exercises. Pass/No Pass only.

FIRE 1762 Aircraft Rescue and Firefighting (FC 5) 1 Unit*Advisory: FIRE 1500**Hours: 19 hours LEC; 5 hours LAB*

This course provides the knowledge to operate safely during an aircraft emergency. This course identifies types of aircraft, aviation fuels, proper extinguishing agents, and airport communication systems used in aircraft emergencies. This course was formerly listed as CDF, FJPA, SFD, SMFD, USDA, and FIRE 1062 prior to April 2011. Pass/No Pass only.

FIRE 1763 Rescue Boat Operations .5 Unit*Advisory: Ability to Swim**Hours: 6 hours LEC; 18 hours LAB*

This course provides the skills needed to operate a rescue boat and perform rescue in river and flood situations. Safety, course philosophy, and terminology are covered. "In water" experiences for students include how to read dynamics flow for safety travel, perform self-rescue and victim- rescue operations, along with executing pre/post-inspections of the personal watercraft (PWC). This course was formerly listed as FIRE 1059 prior to April 2011. Pass/No Pass only.

FIRE 1764 Personal Watercraft Operations .5 Unit*Advisory: Ability to swim.**Hours: 4 hours LEC; 12 hours LAB*

This course provides the knowledge and skills necessary to operate personal watercraft on water related incidents. Subjects learned are the reading of water movement and the tactics/strategies for operating personal water craft. Not open to students who have completed CDF 1063, Rescue Water Craft. This course was formerly listed as CDF,SFD, and SMFD 1061 prior to April 2011. Pass/No Pass Only.

FIRE 1766 River and Flood Water Rescue .5 Unit*Hours: 5 hours LEC; 11 hours LAB*

This course is intended for the training of fire service personnel in water rescue techniques. Topics include swift water rescue, submerged vehicles, drowning, use of engine/truck company equipment for water rescue, use of rafts and boats, and underwater search and recovery. This course was formerly listed as FIRE 1079 prior to April 2011. Pass/No Pass only.

FIRE 1768 Vehicle Extrication**.75 Unit***Prerequisite: FIRE 1500**Hours: 9 hours LEC; 15 hours LAB*

This course provides the knowledge and skills to prepare a fire fighter to extricate victim(s) from a common passenger vehicle in a safe and effective manner in accordance with established policies and procedures. Topics include sizing up a vehicle incident, scene safety zones, fire protection, stabilizing a common passenger vehicle, isolating and managing energy sources, access and egress points, disentangling victims, removing victims, and terminating a vehicle incident. Pass/No Pass only.

FIRE 1769 Trench Rescue Technician**.75 Unit***Prerequisite: FIRE 1761**Hours: 10 hours LEC; 14 hours LAB*

This course transitions students from classroom discussion to working safely and efficiently in a trench rescue environment. Topics include trench and excavation regulations, understanding soil, trench configurations, trench hazards, rescue team preparation, incident response, initial on-scene and pre-entry operations, shoring systems and components, installation of shoring systems, victim rescue and recovery, and incident termination. Pass/No Pass only.

FIRE 1800 Firefighter Training (S-130)**2 Units***Hours: 35.5 hours LEC*

This course provides new firefighters with basic wildland firefighting skills. It also provides the knowledge needed to identify basic weather conditions, topography, fuels, and their effect on fire behavior. Pass/No Pass only.

FIRE 1801 Fire Fighter Survival**.25 Units***Hours: 4 hours LEC; 12 hours LAB*

This course provides a greater understanding of how to avoid committing fatal errors on the fireground. Topics include fire fighter survival terminology, developing a survival attitude, increasing situational awareness, and problem-solving techniques. Pass/No Pass only.

FIRE 1803 Rapid Intervention Crew Operations .5 Units*Prerequisite: FIRE 1500 and 1801**Hours: 4 hours LEC; 20 hours LAB*

This course is designed for fire fighters to rescue a downed fire fighter in an Immediately Dangerous to Life and Health (IDLH) environment in the continuing effort to reduce the number of fire fighter injuries and deaths that occur regularly. Students train using evolutions and scenarios based off tragedies suffered by fellow fire fighters from departments across the country. Students receive information on how to locate and use these Line of Duty Death (LODD) studies as training and prevention tools throughout their careers. This course focuses on the three phases of a Rapid Intervention Crew (RIC) operation: 1) predeployment, 2) deployment, and 3) rescue. During the class, you will also gain a greater understanding of RIC operations terminology and the RIC mindset. Topics include identifying causes of firefighter injuries and fatalities at structure fires, describing and preventing common fire ground errors that have caused injuries or fatalities, demonstrating self-survival knowledge and techniques, and demonstrating and applying firefighter rescue and self-survival techniques. This course was formerly listed as FIRE 1050 prior to April 2011. Pass/No Pass only.

FIRE 1804 Confined Space Awareness**.25 Units***Hours: 6 hours LEC*

This course provides instruction in identifying a permit and non-permit required confined space, the hazards associated with confined spaces, state regulations and industry standards, incident management, communications, and equipment requirements. It does not qualify participants to make permit-required entries. Topics include regulations and standards, dangers of confined space incidents, permit-required confined spaces, hazards, resources needed, tactical worksheets, communications, nonentry rescue, and incident command. This course was formerly listed as CDF 1081 prior to April 2011. Pass/No Pass only.

FIRE 1805 Wildland Firefighting Skills**1.75 Units***Hours: 26 hours LEC; 20 hours LAB*

This course provides the necessary information required in wildland firefighting to safely operate in emergency conditions. Topics include map/compass and GPS use, radio use, hand tool use, fire shelters, belt weather kits, and human factors. This course was formerly listed as USDA 1109 prior to April 2011. Credit/No Credit only.

FIRE 1806 Confined Space Rescue Technician**1 Unit***Prerequisite: FIRE 1804**Hours: 11 hours LEC; 29 hours LAB*

This course is an intensive hands-on training program that will prepare students for confined-space emergencies. Topics include identifying confined spaces and permit-required confined spaces, the hazards associated with permit-required confined spaces, target industries and hazards, state and federal regulations, components of a rescue operation, and the roles and responsibilities of the rescue team. Pass/No Pass only.

FIRE 1807 Advanced Firefighter Training (S-131).5 Unit*Prerequisite: FIRE 1800**Hours: 8 hours LEC*

This course provides advanced training in wildland firefighting skills with an emphasis on safety and tactics. This is suggested training for firefighters who wish to become qualified at first level supervisory positions. This course also meets the training requirements for Advanced Firefighter/Squad Boss and Incident Commander Type 5. This course was formerly listed as FIRE 1067 prior to April 2011. Pass/No Pass only.

FIRE 1808 Fire Ground Skills: Update**.25 Unit***Prerequisite: Completion of a State of California Fire Marshal approved Firefighter 1 academy**Hours: 4 hours LEC; 4 hours LAB*

This course updates critical knowledge, skills, and abilities employed in emergency conditions. Topics include self-contained breathing apparatus, ground ladders, ropes and knots, apparatus operation, wildland hoselays, and fire shelter deployment and safety. This course was formerly listed as CDF 1048 prior to April 2011. Credit/No Credit only.

FIRE 1809 Wildland Fire Chain Saws (S-212)**1 Unit***Enrollment Limitation: To enroll in this course (FIRE 1809) the student must be an employee of a federal fire fighting agency, or a member of a state or local fire agency.**Hours: 11 hours LEC; 25 hours LAB*

This course is designed for prospective chainsaw operators. Topics include introduction to the function, maintenance and use of internal combustion engine powered chain saws, tactical wildland fire applications, and 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. This course was formerly listed as CDF, FJPA, SMFD, USDA, EGFD, and SFD 1080 prior to September 2011. Credit/No Credit only.

FIRE 1860 Physical Fitness for**Fire Service Personnel****1.5-3 Units***Hours: 13 hours LEC; 42-130 hours LAB*

This course is a physical fitness course for employed firefighters. It includes fire service wellness initiatives, cardiovascular and muscular fitness, safety and proper usage of exercise equipment, joint flexibility, hydration, nutrition and weight control, cardiac risk factors, and sleep disorders. This course was formerly listed as FITNS 341 prior to April 2011. Pass/No Pass only.

FIRE 1872 Basic Air Operations (S-270) .75 Unit*Hours: 16 hours LEC*

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. Topics include the types of helicopters and air tankers and the criteria that make up each type. Also included are safe firefighting conduct operations when aircraft are being used. Note: The regulations, procedures and policies addressed in this course are primarily those governing federal agency and ICS operations. State, county, or other political subdivisions using this course will need to consult their agency having jurisdiction with respect to regulations, procedures and policies. This course was formerly listed as FIRE 1058 prior to April 2011. Pass/No Pass only.

FIRE 1873 Strike Team/Task Force Leader, All-Hazards (STEN/TFLD) (AH-330) 1.25 Units

Enrollment Limitation: To enroll in this course (FIRE 1873) the student must be an employee of a federal fire fighting agency, or a member of a state or local fire agency.

Hours: 22 hours LEC; 10 hours LAB

This course provides the skills and knowledge needed to perform in the position of Strike Team/Task Force Leader. Topics include position overview, pre-deployment responsibilities, concept of the position, resource typing standards, pre-dispatch preparation, incident responsibilities, administration, supervision, response, assignment, demobilization, tactics and safety, risk management, entrapment avoidance, Wildland Urban Interface (WUI), case studies, scenarios, and appropriate action vs. freelancing. This course was formerly listed as FIRE 1066 prior to April 2011. Pass/No Pass only.

FIRE 1874 Task Force/Strike Team Leader Refresher .25-.5 Units*Hours: 4-8 hours LEC*

This course presents the rules and regulations required to operate as a strike team/task force leader on emergency incidents. Additionally, this course explains the many rules and regulations governing strike team leaders' actions. This course was formerly listed as CDF, FJPA, SMFD, and USDA 1075 prior to April 2011. Credit/No Credit only.

FIRE 1875 Fire Operations in the Wildland/Urban Interface (S-215) .25-.75 Units

Enrollment Limitation: To enroll in this course (FIRE 1875) the student must be an employee of a federal fire fighting agency or a member of a state or local fire agency.

Hours: 16 hours LEC; 4-8 hours LAB

This course is designed for the firefighter operating as incident commander in areas where urban growth and expansion interfaces with the wildland. Topics 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, plans updates, and after action review. This course was formerly listed as FIRE 1073 prior to April 2011. Pass/No Pass only.

FIRE 1880 Field Observer/Display Processor (S-244/S-245) 1.5 Units*Prerequisite: CDF 1052**Hours: 24 hours LEC; 8 hours LAB*

This course provides the techniques, theory, and practical experience to be a field observer/display processor in the Incident Command System Planning Section. Topics include identifying and interpreting maps, making map calculations, using observation aids, mapping from aircraft, making field observations, and processing and displaying data. This course was formerly listed as CDF, FJPA, SMFD, and USDA 1118 prior to April 2011. Credit/No Credit only.

FIRE 1881 Helicopter Training (S217) 1.5 Units*Prerequisite: FT 55 (SMFD 1055) and FT 52 (SMFD 1052)**Hours: 26 hours LEC; 14 hours LAB*

This course provides an understanding of basic helicopter operations and their use on wildland firefighting incidents. This course includes aircraft terminology, helicopter support systems and helicopter tactics used in their operation. This course was formerly listed as FIRE 1070 prior to April 2011. Credit/No Credit only.

FIRE 1882 Ignition Operations (S-234) 1 Unit*Hours: 16 hours LEC; 8 hours LAB*

This course presents the functions of an Ignition Specialist or Firing-Boss on emergency incidents. It includes backfire and burnout safety training and the proper application of fire suppression firing methods and practices. This course was formerly listed as FIRE 1094 prior to April 2011. Pass/No Pass only.

FIRE 1883 Chainsaw Bench .5 Unit*Hours: 9 hours LEC*

This course covers basic chainsaw field mechanics and troubleshooting. Topics include chainsaw components, attachments, adjustments, problems, and maintenance. This course was CDF, FJPA, and USDA 1083 prior to September 2011. Pass/No Pass only.

FIRE 1884 Crew Boss (Single Resource) (Blended) (S-230) .25 Unit*Prerequisite: FFS 1541 with a grade of "C" or better*

Enrollment Limitation: To enroll in this course (FIRE 1884) the student must be an employee of a federal fire fighting agency, or a member of a state or local fire agency.

Hours: 8 hours LEC

This course covers 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. Pass/No Pass only.

FIRE 1885 Firing Operations (S-219) 1 Unit

Enrollment Limitation: To enroll in this course (FIRE 1885) the student must be an employee of a federal fire fighting agency, or a member of a state or local fire agency.

Hours: 16 hours LEC; 8 hours LAB

This course utilizes a blended approach to learning, incorporating a mix of online and instructor-led training (ILT). Students complete the online training portion of the course prior to taking the ILT. Topics include the roles and responsibilities of a Firing Boss (FIRB), outlines duties of other personnel who may engage firing operations, and illustrates common firing devices and techniques. Pass/No Pass only.

FIRE 1886 Engine Boss (Single Resource) (Blended) (S-231) .25 Unit*Prerequisite: FIRE 1884*

Enrollment Limitation: To enroll in this course (FIRE 1886) the student must be an employee of a federal fire fighting agency, or a member of a state or local fire agency.

Hours: 3.5 hours LEC; 4.5 hours LAB

This course is designed to produce student proficiency in the performance of the duties associated with Engine Boss, single resource (ENGB). Topics include engine and crew capabilities and limitations, information sources, fire size-up considerations, tactics, and wildland/urban interface. Pass/No Pass only.

Fire and Forestry Services

(FFS) Fire and Forestry Services courses are typically offered off-campus through an affiliate agency and have special enrollment limitations, prerequisites, require a different registration process, and may not be routinely offered. These courses include California State Fire Training certificate courses managed by the California State Fire Marshal.

FFS 1500 All Hazards Operations Section Chief (S-430/E-958) 1.5 Units

Prerequisite: FFS 1510, 1511, and 1514 with grades of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1500) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 24.5 hours LEC; 7.7 hours LAB

The purpose of this course is to provide local and state-level emergency responders with an overview of key duties and responsibilities of an Operations Section Chief Type-III in a Type III All-Hazards Incident Management Team (AHIMT). Topics include roles and responsibilities, management cycle, strategy and planning, contingency planning, supervision and communications, managing and adjusting the operations section, risk assessment and safety management, and personnel interaction. Pass/No Pass only.

FFS 1501 United States Department of Agriculture (USDA) Foundational Academy 7 Units

Enrollment Limitation: To enroll in this course (FFS 1501) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs.
Hours: 114.5 hours LEC; 45.5 hours LAB

This course is designed to provide the skills and knowledge necessary to perform as a team leader. Topics include leadership, fire fighting skills, fire behavior, basic air operations, firing equipment and techniques, fireline fatalities, and physical training. This course is presented in a formal academy setting. This course was formerly listed as FIRE 1502. This course is not open to students who have completed FIRE 1502. Pass/No Pass only.

FFS 1502 United States Department of Agriculture (USDA) Core Academy 5.5 Units

Prerequisite: FFS 1501 with a grade of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1502) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs.
Hours: 63.5 hours LEC; 112.5 hours LAB

This course is designed to provide the skills and knowledge necessary to perform as a skilled Wildland Firefighter. Topics include physical fitness, wellness, nutrition, first responder medical, risk and safety, effects of fire, firing operations, helicopter transport of external loads, fire line construction, hand tool use, communications, leadership, and firefighter skills. The academy is presented in a formal setting. This course was formerly listed as FIRE 1501. This course is not open to students who have completed FIRE 1501. Pass/No Pass Only.

FFS 1503 USDA Suburban Emergency Response (SUBE) 1.25 Units

Enrollment Limitation: To enroll in this course (FFS 1503) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, 2) have obtained Advanced Firefighter/Squad Boss (FFT1), and 3) be required to meet OSHA requirements concerning facial hair and Self Contained Breathing Apparatus (SCBA).
Hours: 20 hours LEC; 12 hours LAB

The course provides a baseline training level to assist the performance on a variety of all-risk emergency incidents. Topics include being able to recognize hazardous situations that may arise in the wildland interface and act responsibility under current regulations and policies utilizing current fire suppression tactics and protective equipment.

FFS 1510 Intermediate Incident Command System (I-300) .75 Units

Enrollment Limitation: To enroll in this course (FFS 1510) the student must be 1) an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) successful completion of Incident Command System (I-200), which is an online course offered by Federal Emergency Management Agency (FEMA).
Hours: 12.5 hours LEC; 5.5 hours LAB

This course provides expanded description and detail of the organization and operation of the Incident Command System (ICS). Topics include management of expanding incidents, incident/event management process, and development of an Incident Action Plan (IAP). This course was formerly listed as FIRE 1622 prior to November 2017. This course is not open to students who have completed FIRE 1622.

FFS 1511 Advanced Incident Command System (I-400) .75 Units

Prerequisite: FFS 1510
Enrollment Limitation: To enroll in this course (FFS 1511) the student must be 1) an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 16 hours LEC

This course provides in-depth training in the Incident Command System (ICS) and its components. This course provides the necessary training needed to manage and command large scale complex incidents, as well as the knowledge to develop organizational structures. Topics include fundamentals review for command and general staff, major and/or complex incident/event management, area command, and multi-agency coordination. This course was formerly listed as FIRE 1623 prior to November 2017.

FFS 1512 National Incident Management System (NIMS) ICS All-Hazards Safety Officer (E954) 1.5 Units

Prerequisite: FFS 1510, 1511, and 1514 with grades of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1512) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 27 hours LEC; 5 hours LAB

This course provides local and state-level emergency responders with an overview of key duties and responsibilities of a safety officer type III in a type-III All-Hazards Incident Management Team (AHIMT). Topics include incident safety officer's role, obtaining information, identifying hazards and risks, prioritizing and managing hazards and risks, site safety and control planning, and incident safety planning. Pass/No Pass only.

FFS 1514 Command and General Staff (S-420) 1.5 Units

Enrollment Limitation: To enroll in this course (FFS 1514) the student must be 1) an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) strongly recommended that the student has completed all prerequisite experience and course work to be qualified at the type 2 level as an incident commander (ICT2), command, or general staff.
Hours: 26 hours LEC; 10 hours LAB

This course prepares students to function effectively in the position of a type 2 incident commander, command, or general staff. It focuses on the application of previously acquired knowledge and skills. Topics include effective decision making, team interaction, transfer of command, and the planning process. Pass/No Pass only.

FFS 1516 National Incident Management System (NIMS) ICS All-Hazards Division/Group Supervisor (E960/S339) .75 Units

Enrollment Limitation: Qualified as a Task Force Leader (TFLD) OR qualified as an Incident Commander Type 3 (ICT3) OR qualified as an Incident Commander Type 4 (ICT4) and in any two strike team leader positions (one must be STCR or STEN).
Hours: 13.8 hours LEC; 6.3 hours LAB

The purpose of this course is to provide local and State-level emergency responders with an overview of key duties and responsibilities of a Division/Group Supervisor type-III in a type-III All-Hazards Incident Management Team (AHIMT). Topics include overview of the Strike Team/Task Force Leader Positions, Division/Group management and personnel management, information gathering and briefings, and the role in the planning process. Pass/No Pass only.

FFS 1518 Fire Program Management (M-581) 2 Units

Enrollment Limitation: To enroll in this course (FFS 1518) the student must be 1) an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, 2) recommends students obtain the competencies provided in Fireline Leadership (L-380), 3) Introduction to Fire Effects (RX-310), and 4) Intermediate ICS (ICS-300) prior to attending this course.
Hours: 36 hours LEC

This training course meet the needs of current and future unit-level fire program managers. It is intended to aid in the application of fire management principles in sound decision making, business management, human resource management, administrative functions, use of state-of-the-art tools and methods in fire management programs, and recognition of the necessity for personal accountability required in fire program management. Topics include safety, decision making, laws, fire management plans, policy, budget planning, execution and monitoring, management implications, preparedness, and managing the fire program. Pass/No Pass only.

FFS 1519 Facilitative Instructor (M-410) 1.25 Units

Enrollment Limitation: To enroll in this course (FFS 1519) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 17 hours LEC; 19 hours LAB

This course presents quality instructional delivery methods with an emphasis on student-oriented adult training techniques. It is designed for students to meet National Wildfire Coordinating Group (NWCG) instructor requirements. Topics include instructional tools and equipment, verbal and nonverbal communications, presentation skills, course coordination, and ethics. Pass/No Pass only.

FFS 1520 Helibase Manager (S-371) 1 Unit

Enrollment Limitation: To enroll in this course (FFS 1520) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) qualified as a helicopter manager, single resource (HMGB).
Hours: 13 hours LEC; 19 hours LAB

This course provides students with the skills necessary to perform as a helibase manager through facilitated discussions and group exercises. It gives students a realistic helibase manager experience which prompts the student to communicate, resolve issues, and make decisions in support of an incident. Topics include common responsibilities, procedures, and duties, helibase organization, briefings, selection and layout, helibase tactical log, emergency procedure, and military aviation operations. Pass/No Pass only.

FFS 1521 Helicopter Manager (S-372) 1.25 Units

Enrollment Limitation: To enroll in this course (FFS 1521) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) satisfactory performance as a helicopter crewmember (HECM).
Hours: 20 hours LEC; 20 hours LAB

This course prepares students to perform the job of helicopter manager. Topics include policy, dispatching and ordering, contract administration and pay documents, load calculations, risk management and simulation. The final exercise gives students a realistic helicopter manager experience. Pass/No Pass only.

FFS 1522 Air Support Group Supervisor (S-375) 1 Unit

Enrollment Limitation: To enroll in this course (FFS 1522) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) qualified as a helibase manager type 1 (HEB1).
Hours: 20 hours LEC

This course prepares the student for the duties and responsibilities of the Air Support Group Supervisor (ASGS). Topics include addressing aviation safety, risk management, airspace coordination, dispatch relations and coordination, fixed-wing, rotor-wing, and military operations. This course is to prepare students to make the transition from being a type 1 helibase manager (HEB1) to an ASGS. Pass/No Pass only.

FFS 1523 Aerial Supervision (S-378) 1.75 Units

Enrollment Limitation: To enroll in this course (FFS 1523) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a state fire agency.
Hours: 32 hours LEC; 8 hours LAB

This course is designed to meet the training needs of an Air Tactical Group Supervisor (ATGS), Helicopter Coordinator (HLCO), lead plane pilot, Air Tanker Coordinator (ATCO), and Aerial Supervision Module (ASM) crewmember as outlined in the Interagency Aerial Supervision Guide (IASG). Topics include aerial supervision program introduction, aerial supervision roles and responsibilities, administration, training, certification, currency, policies, incident aircraft, suppressants and retardants, aerial supervision mission procedures, aerial firefighting strategy and tactics, incident aircraft operations, all-hazard incidents, and safety. Pass/No Pass only.

FFS 1524 Helicopter Management Refresher (RT-372) 1 Unit

Prerequisite: FFS 1521 with a grade of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1524) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 20 hours LEC

This course is a refresher course for the job of helicopter manager. Topics include policy review, dispatching and ordering, contract administration and pay documents update, risk management, and operational review. Pass/No Pass only.

FFS 1525 Air Tactical Group Supervisor (ATGS) Workshop (RT-378) 1 Unit

Prerequisite: FFS 1522 and 1523 with grades of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1525) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 20 hours LEC

This is a workshop course for the job of Air Tactical Group Supervisor (ATGS). Topics include aviation safety/risk management, airspace coordination, dispatch coordination, fixed-wing and rotor-wing operations, contract administration, and operational review. Pass/No Pass only.

FFS 1530 Expanded Dispatch Support Dispatcher (D-310) 1.5 Units

Enrollment Limitation: To enroll in this course (FFS 1530) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) qualified as an expanded dispatch recorder (EDRC).
Hours: 23.5 hours LEC; 12.5 hours LAB

This course prepares the student to accomplish the duties and responsibilities of an Expanded Dispatch Support Dispatcher (EDSD). Topics include Resource Ordering and Status System (ROSS); planning and implementing a dispatch area to meet the needs of the incident(s); policies and procedures using resource orders and supplemental forms; mobilizing, reassigning, and demobilizing resources; and demonstrating the ability to respond to changing priorities and situations. Pass/No Pass only.

FFS 1531 Initial Attack Dispatcher (D-311) 1.25 Units

Prerequisite: FFS 1540 with a grade of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1531) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, 2) successful completion of Basic Firefighter (S-130), and 3) qualified as dispatch recorder (EDRC).
Hours: 22 hours LEC; 10 hours LAB

This course provides a consistent knowledge and skill base for the initial attack dispatcher (IADP). It includes concepts that will help an IADP perform at an acceptable level on a national basis without regard to geographic boundaries. Topics include initial attack dispatching, extended attack support, maps and aviation charts, and radio use. Pass/No Pass only.

FFS 1532 Aircraft Dispatcher (D-312) 1.75 Units

Enrollment Limitation: To enroll in this course (FFS 1532) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) qualified as dispatch recorder (EDRC).
Hours: 32 hours LEC; 8 hours LAB

This course provides a consistent knowledge and skill base for the aircraft dispatcher (ACDP). It includes concepts that will help an ACDP perform at an acceptable level on a national basis without regard to geographic boundaries. It also provides an overview of aircraft dispatching, maps and aviation charts, decision making, situational awareness, airspace coordination, safety, and aircraft. Pass/No Pass only.

FFS 1533 ROSS Dispatch (NROSSD) 1.5 Units

Enrollment Limitation: To enroll in this course (FFS 1533) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, 2) have successfully completed I-100 Incident Command System (Introduction), 3) have successfully completed I-200 Incident Command System (Basic), and 4) successfully completed D-110 Expanded Dispatch Recorder. Hours: 28.5 hours LEC; 3.5 hours LAB

This course prepares students to perform the duties of the Resource Ordering and Status System (ROSS) dispatching system. Topics include how to create an incident, create a request, fill orders, release and reassign resources. Pass/No Pass only.

FFS 1534 USDA Law Enforcement Dispatch (LEDSP) 1.5 Units

Prerequisite: FFS 1531 with a grade of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1534) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency. Hours: 28 hours LEC; 4 hours LAB

This is an interagency course for wildland dispatchers, designed to help the students understand the roles and functions of law enforcement dispatching in the emergency dispatch centers. Topics include law enforcement incidents, agencies, organizational structures, the importance of the dispatcher as first point of contact, appropriate response to an incident, procedures for making inquiry into law enforcement information systems, and cross referencing the information obtained within these systems. Pass/No Pass only.

FFS 1540 Introduction to Wildland Fire Behavior (S-190) .25 Units

Enrollment Limitation: To enroll in this course (FFS 1540) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency. Hours: 8 hours LEC

This is the first course in a series that collectively serves to develop fire behavior prediction knowledge and skills. Topics include the fire triangle, topography, fuels, weather, and fire behavior. Pass/No Pass only.

FFS 1541 Intermediate Wildland Fire Behavior (S-290) 1.75 Units

Prerequisite: FFS 1540 with a grade of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1541) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency. Hours: 32 hours LEC

This is the second course in a series that collectively serves to develop fire behavior prediction knowledge and skills. Topics include the fire environment, topographic influences, fuels, weather, wind, fuel moisture, and extreme fire behavior. Pass/No Pass only.

FFS 1542 Introduction to Wildland Fire Behavior Calculations (S-390) 1.5 Units

Prerequisite: FFS 1541 with a grade of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1542) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency. Hours: 29 hours LEC; 3 hours LAB

This course provides an introduction into fire behavior calculations by manual methods, using nomograms, and the Fireline Handbook Appendix B: Fire Behavior. Topics include studying inputs (weather, slope, fuels, and fuel moisture), interpreting fire behavior outputs, documentation processes, and fire behavior briefing components. Pass/No Pass only.

FFS 1543 Advanced Fire Behavior Calculations (S-490) 2 Units

Prerequisite: FFS 1542 with a grade of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1543) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) satisfactory completion of Introduction to Wildland Fire Behavior Calculations (S-390). Hours: 34 hours LEC; 6 hours LAB

This course prepares students desiring to become qualified as a prescribed fire burn boss type 1 (RXB1). Topics include atmospheric stability, critical fire weather patterns, crown fire behavior, wildland fire behavior on slopes, predicting large fire growth, and adapting large scale winds to local terrain. Pass/No Pass only.

FFS 1544 Intermediate National Fire Danger Rating System (S-491) 1.5 Units

Prerequisite: FFS 1541 and 1556 with grades of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1544) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, 2) satisfactory completion of Intermediate Wildland Fire Behavior (S-290), 3) demonstrate at least intermediate skills with the current Windows' operating system, 4) possess a valid Weather Information Management System (WIMS) and Wildland Fire Management Information (WFMI) system logon identification, and 5) current and comprehensive working knowledge of WIMS (the WIMS course is strongly recommended to attain this prerequisite knowledge). Hours: 24 hours LEC; 12 hours LAB

This course provides the knowledge and skills necessary to operate, apply, and manage the National Fire Danger Rating System (NFDRS). Topics include NFDRS input, calculations and inputs, data retrieval and analysis, decisions, and application. Pass/No Pass only.

FFS 1545 Prescribed Fire Implementation (RX301) 1 Unit

Prerequisite: FFS 1542 with a grade of “C” or better
Advisory: Students desiring to take both RX-341 (Prescribed Fire Plan Preparation) and RX-301 will benefit from taking RX-341 first.
Enrollment Limitation: To enroll in this course (FFS 1545) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior’s Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, 2) qualified as a firing boss (FIRB) and incident commander type 4 (ICT4), and 3) proficient in the use of BehavePlus.
Hours: 15.8 hours LEC; 8.3 hours LAB

This course introduces students to the tools and techniques used to perform in the role of a prescribed fire burn boss. Topics include operational leadership, liability, prescribed fire plan evaluation, pre-burn preparation, pre-burn operations, contingency operations, post-burn activities, and documentation. Pass/No Pass only.

FFS 1546 Introduction to Fire Effects (RX-310) 1.25 Units

Enrollment Limitation: To enroll in this course (FFS 1546) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior’s Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, 2) a working knowledge of fire behavior, and 3) a understanding of basic ecological principles.
Hours: 21.5 hours LEC; 10.5 hours LAB

This course prepares the student with the knowledge and skills necessary to recognize and communicate the relationships between basic fire regimes and first-order fire effects. Topics include fire effects on biological systems, fire in ecosystems, fire effects on the physical environment, fire effects on the cultural resources, and management considerations. Pass/No Pass only.

FFS 1547 Prescribed Fire Plan Preparation (RX341) 1.5 Units

Prerequisite: FFS 1542 with a grade of “C” or better
Advisory: Students desiring to take both RX-341 and RX-301 (Prescribed Fire Implementation) will benefit from taking RX-341 first.
Enrollment Limitation: To enroll in this course (FFS 1547) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior’s Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, 2) proficient in the use of BehavePlus, and 3) fire personnel must be qualified as Incident Commander Type 4 (ICT4).
Hours: 26 hours LEC; 6 hours LAB

This course prepares students with the skills/knowledge to prepare a prescribed fire plan for technical review and approval in accordance with the Interagency Prescribed Fire Planning and Implementation Procedures Reference Guide. Topics include policies and guidelines, goals and objectives, risk assessment, prescription development and scheduling, smoke management and air quality, implementation of the planning process, monitoring, funding, post-burn activities, and final complexity rating. Pass/No Pass only.

FFS 1548 Smoke Management Techniques (RX-410) 1.5 Units

Enrollment Limitation: To enroll in this course (FFS 1548) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior’s Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) students should have a background in prescribed fire planning, implementing, monitoring, permitting or smoke/air regulating.
Hours: 28 hours LEC; 4 hours LAB

This course leads students through the ecological and historical role of fire, 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. The pre-course work assignment is designed to familiarize students with the Smoke Management Guide and air quality regulations that impact prescribed fire programs. Pass/No Pass only.

FFS 1550 All Hazards Planning Section Chief (S-440/E-962) 1.25 Units

Prerequisite: FFS 1510, 1511, and 1514 with grades of “C” or better
Enrollment Limitation: To enroll in this course (FFS 1550) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior’s Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) Resources Unit Leader (RESL), Situation Unit Leader (SITL), Planning Section Chief type 3 (PSC3), Operations Section Chief type 2 (OSC2), Safety Officer type 2 (SOF2), or Logistics Section Chief type 2 (LSC2).
Hours: 24 hours LEC

This course provides local and state-level emergency responders with an overview of key duties and responsibilities of a Planning Section Chief type-III in a Type III All-Hazards Incident Management Team (AHIMT). Topics include the role of the Planning Section Chief, Resources Unit and Situation Unit, initial response, the planning cycle, interactions, and an overview of the documentation and demobilization units. Pass/No Pass only.

FFS 1552 National Incident Management System (NIMS) ICS All-Hazards Resources Unit Leader (E965/S349) 1 Unit

Prerequisite: FFS 1510, 1511, and 1514 with grades of “C” or better
Enrollment Limitation: To enroll in the course, you must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior’s, Bureau of Land Management, National Park Service, United States Fish and Wildlife Service and the Bureau of Indian Affairs, or a member of a Local, or State Fire Agency.
Hours: 15.5 hours LEC; 8.5 hours LAB

This course provides local and State-level emergency responders with an overview of key duties and responsibilities of a Resources Unit Leader (RESL) type III in a type-III All-Hazards Incident Management Team (AHIMT). Topics include overview of the planning section and process, overview of the resources unit, tracking resource status, operational planning, unit products/outputs, and demobilization. Pass/No Pass only.

FFS 1553 Incident Training Specialist (S-445) 1 Unit

Enrollment Limitation: To enroll in this course (FFS 1553) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 18 hours LEC

The course is designed to meet the training needs of the incident training specialist (TNSP) on an incident as outlined in the Wildland Fire Qualification System Guide PMS 310-1, and the position task book. Topics include roles and responsibilities, initiating the incident training program, individual training plans, and incident training activities. Pass/No Pass only.

FFS 1556 Weather Information Management System (WIMS) 1 Unit

Prerequisite: FFS 1541 with a grade of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1556) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 16 hours LEC; 8 hours LAB

This course meets the training needs of individuals charged with the collection and maintenance of fire weather data collected from remote automated weather systems used to support the National Fire Danger Rating System (NFDRS). Topics include WIMS navigation and functionality, weather station siting and maintenance, observations, weather forecaster interactions, managing the model, viewing outputs, and troubleshooting. Pass/No Pass only.

FFS 1560 All-Hazards Logistics Section Chief (E-967) 2 Units

Prerequisite: FFS 1510, 1511, and 1514 with grades of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1560) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 35 hours LEC; 5 hours LAB

This course provides local and state-level emergency responders with an overview of key duties and responsibilities of a logistics section chief on a type III or IV All Hazards Incident Management Team (AHIMT). Topics include overview of the facilities, ground support, supply, food, medical, and communications units as well as coordination with command and general staff. Pass/No Pass only.

FFS 1562 Facilities Unit Leader (S-354) 1 Unit

Enrollment Limitation: To enroll in this course (FFS 1562) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) satisfactory performance as a base/camp manager (BCMG).
Hours: 20.5 hours LEC; 3.5 hours LAB

This course prepares students to perform the job of facilities unit leader (FACL). Topics include an introduction to operational leadership, mobilization, arrival at an incident, risk management, safety and tactics, demobilization, and post-incident responsibilities. Pass/No Pass only.

FFS 1563 Ground Support Unit Leader (S-355) .5 Unit

Enrollment Limitation: To enroll in this course (FFS 1563) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 12 hours LEC; 4 hours LAB

This course prepares students to perform the duties of managing the transportation plan, maintenance, and related services at an incident. Topics include gathering information about the assignment; organizing, staffing, and laying out the unit; field inspection of equipment; operation and coordination of the unit with other units; and demobilization. Pass/No Pass only.

FFS 1564 All-Hazards Supply Unit Leader (E-970/S-356) 1.25 Units

Enrollment Limitation: To enroll in this course (FFS 1564) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 21 hours LEC; 9 hours LAB

This course provides the information required for a supply unit leader in the Incident Command System's (ICS) logistics section. Topics include setup and management of the supply unit, demobilization, the ordering process, maintaining inventory, incident mobilization, initial situational awareness, and receiving and distributing items. Pass/No Pass only.

FFS 1565 Food Unit Leader (S-357) 1.5 Units

Enrollment Limitation: To enroll in this course (FFS 1565) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 28 hours LEC; 4 hours LAB

This course meets the training needs of a food unit leader (FDUL). Topics include information about the assignment, coordination, general information, safe food handling, national contract administration, alternate feeding methods, and demobilization. A significant portion of this course is devoted to examining the administration of the National Mobile Food Services Contract as it applies to the FDUL. Pass/No Pass only.

FFS 1566 Remote Automated Weather Station (RAWS) Maintenance 1.25 Units

Enrollment Limitation: To enroll in this course (FFS 1566) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 23.5 hours LEC; 4.5 hours LAB

This course trains students to understand National Fire Danger Rating System (NFDRS) requirements concerning RAWS stations. Topics include Wildfire Management Information (WFMI), weather navigation, checking observations, ordering parts, and completing post-trip input data. Pass/No Pass only.

FFS 1570 National Incident Management System (NIMS) ICS All-Hazards Finance/Administration Unit Leader (E975) 1.25 Units

Prerequisite: FFS 1510, 1511, and 1514 with grades of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1570) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 24 hours LEC

This course provides local and state-level emergency responders with an overview of key duties and responsibilities of a finance/administration section chief type III on a type-III All-Hazards Incident Management Team (AHIMT). Topics include functions of the finance/administration section; responsibilities of the time unit, cost unit, compensation/claims unit, and procurement unit. Pass/No Pass only.

FFS 1571 National Incident Management System (NIMS) All-Hazards Finance/Admin Section Chief (E-973) 1.25 Units

Prerequisite: FFS 1510, 1511, and 1514 with grades of "C" or better
Enrollment Limitation: To enroll in this course (FFS 1571) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 24 hours LEC

This course provides local and state-level emergency responders with an overview of key duties and responsibilities of a Finance/Administration section chief type III on a type-III All-Hazards Incident Management Team (AHIMT). Topics include information gathering and sharing, section management, and interaction and coordination. Pass/No Pass only.

FFS 1574 Incident Contract Project Inspector (S-262) .75 Units

Enrollment Limitation: To enroll in this course (FFS 1574) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 16 hours LEC; 4 hours LAB

This course introduces students to tools and techniques used to perform the duties of the Incident Contract Project Inspector (ICPI). Topics include an overview of what to expect if dispatched to an incident, basic contract administration, types of equipment to be inspected, and inspection opportunities to inspect equipment. Pass/No Pass only.

FFS 1575 Human Resource Specialist (S-340) 1 Unit

Enrollment Limitation: To enroll in this course (FFS 1575) the student must be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency.
Hours: 17.5 hours LEC; 6.5 hours LAB

This course provides the technical skills and knowledge needed to fulfill the role of Human Resource Specialist (HRSP) on emergency incidents. Topics include assignment preparation, incident contacts, incident personnel rights and responsibilities, mutual respect, problem resolution assistance, documentation and reports, personnel safety, security, and wellness. Pass/No Pass only.

FFS 1576 Incident Business Advisor (S-481) 1 Unit

Enrollment Limitation: To enroll in this course (FFS 1576) the student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) experience working with complex organizations such as Area Command, Multi-agency Coordinating (MAC) Group, Unified Command, Federal Emergency Management Agency (FEMA), or experience working with incident management teams, interagency cooperators and additional support organizations during incidents, or satisfactory performance as a unit leader or section chief type 1 or type 2, or working incident business management knowledge acquired through incident assignments, or as a business leader on an agency unit.
Hours: 20 hours LEC

This course prepares students to become an interagency incident business advisor (INBA) resource for all-hazards incidents. Topics include preparation for an assignment, interactions/activities, and relationship to cost objectives. Pass/No Pass only.

FFS 1580 USDA Intelligence Support Specialist (N9032) 1.5 Units

Enrollment Limitation: To enroll in this course (FFS 1580), a student must 1) be an employee of a federal wildland fire fighting agency, which includes: United States Department of Agriculture, Forest Service, the United States Department of Interior's Bureau of Land Management, National Park Service, United States Fish and Wildlife Service, the Bureau of Indian Affairs, or a member of a local or state fire agency, and 2) must have successfully completed Introduction to Incident Command System (ICS), I-100, which is an online course provided by Federal Emergency Management Agency (FEMA).
Hours: 30 hours LEC; 2 hours LAB

This course provides students with a working knowledge of the functions and responsibilities of the Intelligence Support position within the dispatch/coordination system. Topics include basic terminology and concepts related to maps, weather, fire danger, preparation and submission of reports and briefings, and product dissemination.