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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
 Fire Management 1
 Training Instructor 1A
 Training Instructor 1B
 Training Instructor 1C
 USDA Basic Academy
 USDA Advanced Academy

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.

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| 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 at 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,

(continued on next page)

(Firefighter Recruit Academy Certificate continued)

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

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| Requirements for Certificate | 14 - 15 Units |
| FIRE 1500 Firefighter Recruit Academy-Module 1..... | 14-15 |

DEPARTMENT CERTIFICATES

(offered at 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

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| 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

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| 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

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| 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

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

Fire Management 1 Certificate

This program is designed to enhance the first-line supervisor's ability to supervise subordinates. It introduces key management concepts and practices utilized in the California Fire Service. Topics include decision making, time management, leadership styles, personnel evaluations, and counseling guidelines.

Student Learning Outcomes

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

- explain the transition from fire fighter to fire officer
- examine how internal and external influences affect the fire officer and how to effectively deal with these influences
- describe the skills and responsibilities required of first level supervisors
- compare the advantages, disadvantages, and effects of various recognized styles of leadership and leadership profiles
- identify common, emotional, and behavioral characteristics of an individual or working group as it applies to the responsibility of subordinates and supervisors

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| Requirements for Certificate | 2 Units |
| FIRE 1680 Fire Management 1..... | 2 |

Training Instructor 1A Certificate

This certificate is the first of a three-certificate series. Topics include methods and techniques for training in accordance with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching cognitive lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Two (2) student instructor teaching demonstrations are required of all.

Student Learning Outcomes

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

- implement a variety of methods and techniques for training in accordance with the latest concepts in career education
- utilize information to select, adapt, organize, and apply instructional materials appropriate for teaching cognitive lessons
- apply the criteria and methods to evaluate teaching and learning efficiency
- demonstrate how to apply major principles of learning through teaching presentations

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| Requirements for Certificate | 1.5 Units |
| FIRE 1650 Training Instructor 1A..... | 1.5 |

Training Instructor 1B Certificate

This certificate is the second of a three-certificate series. Topics include methods/techniques for training with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching psycho-motor lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations.

Student Learning Outcomes

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

- assess the needs for and develop a complete technical course for fire service training
- analyze, prepare, and deliver a technical lesson
- develop student performance goals for each lesson plan
- identify the principles of evaluation and prescriptive training
- mentor instructional assistants
- apply the major principles of learning through teaching two live demonstrations
- construct a written objective test

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| Requirements for Certificate | 1.5 Units |
| FIRE 1651 Training Instructor 1B..... | 1.5 |

Training Instructor 1C Certificate

This certificate is the third of a three-certificate series. Topics include methods and techniques for developing lesson plans, ancillary components, and tests in accordance with the latest concepts in career education. This course offers the opportunity to develop, receive feedback, and finalize instructional materials, and deliver a teaching demonstration.

Student Learning Outcomes

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

- implement a variety of methods and techniques for training in accordance with the latest concepts in career education
- utilize information to select, create, organize, and utilize instructional materials appropriate for teaching cognitive lessons
- apply the criteria and methods to evaluate teaching and learning efficiency
- demonstrate how to apply major principles of learning through teaching presentations

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| Requirements for Certificate | 1.5 Units |
| FIRE 1652 Training Instructor 1C..... | 1.5 |

USDA Basic Academy Certificate

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, fire prevention, maps, compass, fire line construction, hand tool use, communications, leadership, and firefighter skills. The academy is presented in a formal setting.

Student Learning Outcomes

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

- construct a handline using various tools
- operate a belt weather kit
- document and analyze weather observations
- demonstrate two-rescuer cardiopulmonary resuscitation (CPR)
- evaluate types and extent of injuries
- formulate a course of immediate care after evaluating injuries
- compare and contrast media awareness related to fire safety and prevention
- inspect camp sites for fire violations and safety
- employ the four facets of physical fitness
- explain styles of leadership required in different settings

Requirements for Certificate 6.5 - 7 Units

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| FIRE 1501 | USDA Basic Academy..... | 6.5 - 7 |
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USDA Advanced Academy Certificate

This program is designed to provide the skills and knowledge necessary to perform as a team leader. Topics include leadership, fuels management, fire behavior, basic air operations, firing equipment and techniques, and fireline fatalities. This course is presented in a formal academy setting.

Student Learning Outcomes

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

- formulate a course of action based upon a hazard assessment of the fire environment
- evaluate for additional personnel at a fire scene
- identify and apply stress control techniques
- compare the roles and responsibilities of Firing-Boss and Ignition Specialist
- recognize ignition devices
- distinguish aircraft types and their capabilities
- compare the tactical and logistical missions of an aircraft
- explain basic smoke management
- construct a fire management plan

Requirements for Certificate 7.5 - 8 Units

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| FIRE 1502 | USDA Advanced Academy..... | 7.5 - 8 |
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Fire Technology

FT 110 Fire Apparatus 3 Units

Advisory: FIRE 1500 or FT 300
Hours: 54 hours LEC

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

FT 130 Fire Company Organization and Management 3 Units

Advisory: FIRE 1090 or FT 300; ENGWR 51 and ENGRD 15; OR ESLR 310 and ESLW 310
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. The emphasis of this course is on 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: FIRE 1500 or FT 300
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: FIRE 1090 or FT 300; ENGWR 51 and ENGRD 15; or ESLR 310 and ESLW 310
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: FIRE 1500 or FT 300
Hours: 54 hours LEC

This course of instruction is a basic requirement of 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: FIRE 1500 or FT 300
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 taken up to four times 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: ENGRD 116 (Proficient Reading) and ENGWR 102 (Proficient Writing) with a grade of "C" or better, OR ESLR 320 and ESLW 320 with a grade of "C" or better.

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.

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 information regarding the history and philosophy of fire prevention. Topics include organization and operation of a fire prevention bureau, use of fire and building codes, fire investigation, identification and correction of fire hazards, plan review, report and record keeping, and duties and responsibilities of a fire prevention officer.

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: FT 300; MATH 32 or MATH 42

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. Other topics focus on standpipe systems, automatic sprinkler systems, and foam systems.

FT 320 Hazardous Materials 3 Units

Advisory: FT 300; ENGWR 102 and ENGRD 116; or ESLR 310 and ESLW 310

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.

Fire Fighting Training Center

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 1500 Firefighter Recruit Academy-Module 1 14-15 Units

Prerequisite: HEED 311 with a grade of "C" or better

Enrollment Limitation: Acceptance into the California State Fire Marshal's complete approved Firefighter 1 Academy.

Hours: 137 hours LEC; 363-401 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 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. This course was formerly listed as FIRE 1090 prior to September 2010. Pass/No Pass only.

FIRE 1501 USDA Basic Academy 6.5-7 Units

Enrollment Limitation: Acceptance into the US Forest Service firefighter program.

Hours: 99 hours LEC; 56-81 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, fire prevention, maps, compass, 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 1091 prior to October 2010. Pass/No Pass Only.

FIRE 1502 USDA Advanced Academy 7.5-8 Units

Prerequisite: FIRE 1501

Hours: 121-130 hours LEC; 37-40 hours LAB

This course is designed to provide the skills and knowledge necessary to perform as a team leader. Topics include leadership, fuels management, fire behavior, basic air operations, firing equipment and techniques, and fireline fatalities. This course is presented in a formal academy setting. This course was formerly listed as FIRE 1092 prior to October 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 1520 Fire Apparatus Driver/Operator 1A 1.5 Units

Enrollment Limitation: Valid Class B California Drivers License

Hours: 20 hours LEC; 21 hours LAB

This course is designed to provide information on driver responsibilities, recognized standards, and related laws for fire apparatus. Topics include basic inspections, documentation, maintenance, troubleshooting fire apparatus, and techniques on driving and positioning fire apparatus. This course was formerly listed as FIRE 1260 prior to October 2010. Pass/No Pass only.

FIRE 1521 Fire Apparatus Driver/Operator IB 1 Unit

Enrollment Limitation: Valid Class B California Drivers License

Hours: 10 hours LEC; 30 hours LAB

This course provides information on pump construction and theory of pump operations. Topics include methods for performing basic hydraulics and techniques on basic inspections, documentation, maintenance, and troubleshooting pumps. 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 1540 CDF Computer Applications .25 Units

Hours: 4 hours LEC; 5 hours LAB

This course covers the basic functions of software and utilization of CDF computers. Topics include working with the Internet and CDF Intranet, CDF specific programs and software, and Microsoft programs and software. This course was formerly listed as CDF 1082 prior to October 2010. Pass/No Pass Only.

FIRE 1554 Communicable Disease Awareness .5 Units

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 1556 Emergency Medical Technician 1 - Basic Refresher 1.5 Units

Enrollment Limitation: Currently certified as an Emergency Medical Technician 1 or Basic.

Hours: 23 hours LEC; 12 hours LAB

This course provides current Emergency Medical Technicians (EMTs) certified at the Basic Life Support (BLS) level with continuing education and skills verification modules. It satisfies most of the refresher requirements of local, state, and national Emergency Medical Services (EMS) certifying organizations. EMS-related topics include airway management and ventilation, cardiac care and resuscitation, patient assessment, injury management, legal and ethical issues, vital signs monitoring, and assisting with medication administration. This course does not provide preparation for the National Registry (NR) of EMTs entry or recertification exam. This course may be taken one time for credit. Pass/No Pass Only.

FIRE 1570 Wildland Fire Behavior (S-190) .5 Units

Hours: 8 hours LEC

This course provides instruction in the primary factors affecting the start and spread of wildfires and recognition of potentially hazardous situations. Topics include fire behavior factors affecting the start and spread of wildland fires, and weather conditions. Pass/No Pass only.

FIRE 1571 Intermediate Wildland Fire Behavior (S-290) 1.75 Units

Prerequisite: FIRE 1570

Hours: 32 hours LEC

This course provides the firefighter with the knowledge to predict wildland fire behavior based on fire conditions, weather, fuel and topography. This course was formerly listed as FIRE 1071 prior to November 2010. Pass/No Pass only.

FIRE 1572 Flashover and Hydraulic Theory .5 Units

Enrollment Limitation: Completion of a State of California Fire Marshal approved Firefighter 1 academy.

Hours: 5 hours LEC; 12 hours LAB

This course is designed to provide the theory and techniques of hydraulics and flashover. Topics include flashover conditions, survival during flashover, water applications, fire flow calculations, and master streams. This course was formerly listed as CDF 1120 prior to November 2010. Pass/No Pass Only.

FIRE 1573 Introduction To Wildland Fire Behavior Calculations S-390 2 Units

Hours: 36 hours LEC

This course provides an introduction into fire behavior calculations by manual methods, using nomograms and the Introduction to Wildland Fire Behavior Calculations (S-390) Handbook. Topics include studying inputs (weather, slope, fuels, and fuel moisture), interpreting fire behavior outputs, documentation processes, and fire behavior briefing components. This course applies to the California Fire Service Training and Education system's certification program. Pass/No Pass only.

FIRE 1600 Hazmat First Responder Operational 1 Unit

Hours: 24 hours LEC

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, CDF, FJPA, SFD, and SMFD 1068 prior to April 2011. Pass/No Pass only.

FIRE 1601 Hazardous Materials First Responder Operational Refresher .25 Unit

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 1 Unit

Enrollment Limitation: Completion of a State of California Fire Marshal approved Firefighter 1 academy.

Hours: 18 hours LEC; 6 hours LAB

This course provides the content related to the role of an Incident Commander (IC), as well as any other general or command staff ICS position, during a hazardous material event, with the emphasis on personnel safety and management. Topics include decontamination and clean-up, command and scene management, managing the media, and disposal. This course was formerly listed as CDF, FJPA, SFD, SMFD, and USDA 1091 prior to April 2011. Pass/No Pass Only.

FIRE 1621 Incident Command System (I-200) .5 Unit

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 1622 Incident Command System (I-300) 1 Unit

Prerequisite: FIRE 1621

Hours: 18 hours LEC; 6 hours LAB

Intermediate Incident Command System (ICS) provides expanded description and detail of the organization and operation of the Incident Command System, management of resources, position descriptions (including the Air Operations organization), and essential principles for incident and event planning. This course was formerly listed as FIRE 1053 prior to April 2011. Pass/No Pass only.

FIRE 1623 Incident Command System (I-400) .75 Unit

Prerequisite: FIRE 1622

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. This course was formerly listed as FIRE 1054 prior to April 2011. Pass/No Pass only.

FIRE 1624 Command 1A**2 Units***Prerequisite:* FIRE 1621

Hours: 40 hours LEC

This course provides an introduction to the principles of command, an overview of the concepts of command safety and the risk management process, pre-incident planning considerations, command considerations at structure fire incidents, Company Officer initial actions at an incident including the development of incident priorities, strategy, and tactics, information on the roles and responsibilities of a Company Officer for post-incident actions. Pass/No Pass only.

FIRE 1625 Fire Command 1B**2 Units***Prerequisite:* FIRE 1621

Hours: 40 hours LEC

This course provides instruction in tactics and strategies and scene management principals for incidents involving hazardous materials. The course includes areas of discussion on identification and on hazard mitigation, decontamination, protective clothing, environmental concerns, and legal issues. This course was formerly listed as FIRE 1201 prior to April 2011. Pass/No Pass only.

FIRE 1626 Command 1C**2 Units**

Hours: 40 hours LEC

This course provides information to bring the structural Company Officer out of the city and into the wildland urban interface (WUI); in other words, from his or her comfort zone into an area that could be very well quite unfamiliar. Topics include fire suppression in the wildland urban interface environment; jurisdictional authority and responsibility; WUI company officer responsibilities and leadership fundamentals; collecting and using wildland fire weather, fuels, and topographic information; WUI fire suppression considerations; WUI plan of action; and mobilization and response to an expanding incident. Pass/No Pass only.

FIRE 1627 Fire Command 2A**1.75 Units***Prerequisite:* FIRE 1622

Hours: 28 hours LEC; 12 hours LAB

This course prepares the officer to use management techniques and the Incident Command System when commanding multiple alarms or large suppression forces. This course was formerly listed as FIRE 1202 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 1629 Facilities and Supply
Unit Leader (I-354/I-356)****1-2 Units**

Hours: 18-42 hours LEC

This course provides the information required for a facilities and/or supply unit leaders in the Incident Command System's logistics section. Topics include position coordination between unit leaders, and procedures to set up a supply or facility unit. This course was formerly listed as CDF, FJPA, SFD, SMFD, and USDA 1117 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 1633 Fire Command 2B**1.75 Units***Prerequisite:* FIRE 1625 and 1627; or the equivalent as determined by the Dean or equivalent college authority over the fire training program.

Hours: 26.5 hours LEC; 15 hours LAB

This course provides fire incident commanders with the skills and competency necessary to mitigate an incident, initiate remedial action, and ensure the restoration of normal services with a comprehensive resource management approach. Topics include skills and competency necessary to mitigate an incident, initiate remedial action, and ensure the restoration of normal services with a comprehensive resource management approach. This course applies to California Fire Service Training and Education system's certification program. Pass/No Pass only.

FIRE 1634 Fire Command 2C**2 Units***Prerequisite:* FIRE 1622 and 1627; or the equivalent as determined by the Dean or equivalent college authority over the fire training program.

Hours: 34 hours LEC; 6 hours LAB

This course is approached from a system basis and is applied to both small and large high-rise buildings. Topics include: Prefire planning, building inventory, problem identification, ventilation methods, water supply, elevators, life safety, strategy and tactics, application of the Incident Command System (ICS), and specific high-rise responsibilities. Case studies and simulation are used. Pass/No Pass only.

FIRE 1635 Fire Command 2D**2 Units***Prerequisite:* FIRE 1622 and 1627

Hours: 36 hours LEC; 4 hours LAB

This is the fourth of a ten-course series for Chief Officer certification through California State Fire Training. Topics include principles of disaster planning and management; fire service emergency plans; emergency operations centers; case studies of various natural and man-made disasters; the roles of local, state, and federal offices of emergency services and emergency management agencies; and discussion of multi-hazard planning techniques. This course applies to the California Fire Service Training and Education system's certification program. Pass/No Pass only.

FIRE 1650 Training Instructor 1A**1.5 Units**

Hours: 23.5 hours LEC; 16.5 hours LAB

This is the first of a three-course series. Topics include methods and techniques for training in accordance with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching cognitive lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Two (2) student instructor teaching demonstrations are required of all. Pass/No Pass only.

FIRE 1651 Training Instructor 1B 1.5 Units*Prerequisite:* FIRE 1650

Hours: 20 hours LEC; 21 hours LAB

This is the second of a three-course series. Topics include methods/techniques for training with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching psychomotor lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Pass/No Pass only.

FIRE 1652 Training Instructor 1C 1.5 Units*Prerequisite:* FIRE 1650 and 1651

Hours: 22.5 hours LEC; 17.5 hours LAB

This is the third of a three-course series. Topics include methods and techniques for developing lesson plans, ancillary components, and tests in accordance with the latest concepts in career education. This course offers the opportunity to develop, receive feedback, and finalize instructional materials, and deliver a teaching demonstration. 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 1680 Fire Management 1 2 Units

Hours: 40 hours LEC

This course is designed to enhance a first-line supervisor's ability to supervise subordinates. It introduces key management concepts and practices utilized in the California Fire Service. Topics include decision making, time management, leadership styles, personnel evaluations, and counseling guidelines. 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 1691 Fire Management 2A 1.5 Units*Prerequisite:* FIRE 1680

Hours: 17 hours LEC; 24 hours LAB

This course is the sixth of a ten-course series for Chief Officer certification through California State Fire Training. It provides information on the foundations of individual behavior, personality, and emotions, motivational concepts, individual decision making, group behavior, work teams, group dynamics, group communication, conflict, and negotiations. Completion of this course applies to California's Fire Service Training and Education System's certification program. Pass/No Pass only.

FIRE 1692 Fire Management 2B 1.5 Units*Prerequisite:* FIRE 1680

Hours: 16 hours LEC; 24 hours LAB

This course is the seventh of a ten-course series for Chief Officer certification through California State Fire Training. This course provides insight into the cyclical nature of budgeting and financial management in the fire service. As a management course, students will become familiar with essential elements of financial planning, budget preparation, budget justification, and budget controls. Completion of this course applies to California's Fire Service Training and Education System's certification program. Pass/No Pass only.

FIRE 1693 Fire Management 2C 1.5 Units*Prerequisite:* FIRE 1680

Hours: 16 hours LEC; 24 hours LAB

This course is the eighth of a ten-course series for Chief Officer certification through California State Fire Training. It provides a fire manager with knowledge and insight of personnel, human resource, diversity management, legal mandates, labor relations, and related areas. Topics include areas of organizational development, productivity, recruitment and selection, performance systems, discipline, and collective bargaining. Completion of this course applies to California's Fire Service Training and Education System's certification program. Pass/No Pass only.

FIRE 1694 Fire Management 2D 1.5 Units*Prerequisite:* FIRE 1680

Hours: 16 hours LEC; 24 hours LAB

This course is the ninth of a ten-course series for Chief Officer certification through California State Fire Training. It is designed to educate Chief Officers on the strategic planning process and why each of the steps in the process is critical if the plan is to succeed. Although the strategic planning process may be thought of as extremely complicated, this course will provide timely advice and easy to use tools to assist in the strategic planning process. This course is consistent with critical elements of the accreditation process and its associated self-assessment manual. Completion of this course applies to California's Fire Service Training and Education System's certification program. Pass/No Pass only.

FIRE 1695 Fire Management 2E**1.5 Units***Prerequisite: FIRE 1680*

Hours: 16 hours LEC; 24 hours LAB

This course is the tenth of a ten-course series for Chief Officer certification through California State Fire Training. Topics include the correlation of personal core values and characteristics to ethical decisions and behaviors. In addition, the participant will explore ethical and principle-centered leadership, including ethical systems, ethical dilemmas, and ethical decision-making models. The participant will also examine challenges and develop strategies for leading in public safety organizations serving diverse and dynamic communities. The participant will use a variety of learning modalities including case studies, video analysis, and critical thinking scenarios to explore ethics and the challenges of leadership. Completion of this course applies to California's Fire Service Training and Education System's certification program. Pass/No Pass only.

FIRE 1700 Fire Prevention 1**2 Units**

Hours: 36 hours LEC

This course provides the knowledge for the Company Officer certification track, the Capstone Task Book process, and the skills related to the Company Officer's role in fire prevention. Additionally, it includes the relationship between life safety and building construction, the elements of a quality company inspection program, and how to address complex hazards encountered during an inspection. Topics include complex hazards, relationship between life safety and building construction, elements of a company inspection program, and the company officer's role in fire prevention relationship between life safety and building construction. 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)**1.25 Units***Enrollment Limitation: Completion of a State of California Fire Marshal approved Firefighter 1 academy.*

Hours: 24 hours LEC

This course provides the techniques and methods for using rope, webbing, hardware friction devices, and litters in low angle rescue situations. Areas covered include rope and related equipment, anchor systems, safety lines, stretcher lashing and rigging, mechanical advantage systems, and single line and two line rescue systems. This course is formerly known as CDF 1044, FJPA 1044, SFD 1044, and SMFD 1044. Pass/No Pass only.

FIRE 1761 Rescue Systems 1**1 Unit**

Hours: 6 hours LEC; 36 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**

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 1791 Fatality Fire Case Studies (PMS-490) .5 Unit

Enrollment Limitation: Completion of a State of California Fire Marshal approved Firefighter 1 academy.

Hours: 9 hours LEC

This course provides a study on lessons learned on fatality fires to help fireline tactical decision-makers avoid similar mistakes in the future. Topics include hazard controls, hazard assessment, and decision making. This course was formerly listed as USDA 1095 prior to April 2011. Credit/No Credit only.

FIRE 1792 FIRE: Safety Officer S-404 1.5 Units

Hours: 25 hours LEC; 5 hours LAB

This course is designed to meet the training needs of the fire safety officer position in the incident command system. Topics include: safety officer effectiveness, analysis techniques, safety messages, briefings and reports, and high hazard operations. This course applies to the California Fire Service Training and Education system's certification program. Pass/No Pass only.

FIRE 1800 Firefighter Training (S-130) 2 Units

Prerequisite: FIRE 1570

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 1803 Rapid Intervention Crew Operations .5 Units

Hours: 5 hours LEC; 19 hours LAB

This course provides essential basic training components for all structural firefighters to operate as members of a Rapid Intervention Crew. 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, 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 .5 Units

Enrollment Limitation: Completion of a State California Fire Marshal approved Firefighter 1 academy.

Hours: 9 hours LEC

This course introduces fire service personnel to the hazards, equipment, procedures, codes that impact operations within confined spaces, and prepares the individual for confined space entry and rescue training. This fulfills the California Occupational Safety and Health Administration (Cal-OSHA) requirements for confined space awareness training for fire service personnel. Topics include atmospheric hazards, lock out procedures, ventilation equipment, and case studies. 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 1807 Advanced Firefighter Training (S-131) .5 Units

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 Units

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 Wildfire Powersaws (S-212) 1 Unit

Hours: 18 hours LEC; 14 hours LAB

This course is designed for prospective chainsaw operators. It includes performance requirements for the wildfire power saw operator position in the Incident Command System and on the fireground. 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) .5 Unit

Hours: 16 hours LEC

This course covers aircraft types and capabilities, aviation management and safety, tactical and logistical uses of aircraft, and requirements for helicopter take-off and landing areas. Topics include the four 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. This course was formerly listed as FIRE 1058 prior to April 2011. Pass/No Pass only.

FIRE 1873 Task Force/Strike Team Leader (S-330) 1.5 Units

Hours: 27 hours LEC

This course provides the basic knowledge and skills to operate as a strike team task force leader on emergency incidents. Also included are identifying safety issues, managing response teams, and coordinating with other agencies. 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) 1-1.5 Units**

Hours: 24 hours LEC; 0-8 hours LAB

This course is designed for the firefighter operating as incident commander, in areas where urban growth and expansion interfaces with wildland. Topics include safety operations in environments where wildland fire threatens life and property. 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

Prerequisite: FIRE 1571

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.