FT R170: FIRE FIGHTER I/II ACADEMY

Originator
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College
Oxnard College

Attach Support Documentation (as needed)
sft-fee-schedule-2021 (1).pdf

Discipline (CB01A)
FT - Fire Technology

Course Number (CB01B)
R170

Course Title (CB02)
Fire Fighter I/II Academy

Banner/Short Title
Fire Fighter I/II Academy

Credit Type
Credit

Start Term
Fall 2023

Formerly
FT R070 - Firefighter I Academy

Catalog Course Description
The Oxnard College Regional Fire Academy (OCRFA) provides the skills and knowledge needed for the entry level firefighter, career or volunteer, to perform duties safely, effectively, and competently. The seven overarching themes of the California State Fire Fighter I/II curriculum are: General knowledge germane to the profession, fire department communications, fire-ground operations, rescue operations, preparedness and maintenance, wild land suppression activities, and hazardous materials and weapons of mass destruction (WMD). Approved by the California State Board of Fire Services and California State Fire Marshal's Office. This academy fulfills all educational and training requirements for Fire Fighter I/II. All exams require an 80% passing grade for all academic and manipulative tests per State Fire Marshal requirements. Students are expected to obtain all required uniforms and safety equipment. State certification costs are the responsibility of the student. Please note that this is a physically demanding course.

Additional Catalog Notes
The Oxnard College Regional Fire Academy, OCRFA, is an Accredited Regional Training Program, ARTP, as identified by California State Fire Training; The Academy was officially re-accredited in January 2020, with the Firefighter 2013 curriculum serving as the primary source of instructional material; The Fire Academy offers 20 units and beginning Fall 2020 will meet for 490 hours over 67 instructional periods, 0700-1700; FT R170 units are degree applicable; Strenuous physical fitness is a daily activity; To apply to the Fire Academy please visit the Oxnard College Fire Academy webpage.

Taxonomy of Programs (TOP) Code (CB03)
2133.50 - *Fire Academy

Course Credit Status (CB04)
D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)
B (Transferable to CSU only)

Course Basic Skills Status (CB08)
N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)
C - Clearly Occupational

Course Cooperative Work Experience Education Status (CB10)
N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)
Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)
N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)
Y - Not Applicable

Course Noncredit Category (CB22)
Y - Credit Course

Funding Agency Category (CB23)
Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)
1 - Program Applicable

General Education Status (CB25)
Y - Not Applicable

Support Course Status (CB26)
N - Course is not a support course

Field trips
Will be required

Grading method
(L) Letter Graded

Does this course require an instructional materials fee?
Yes

Fee Amount
675.00

What personal property or material does the student need that the fee pays for?
6 @ $75.00 each certificates of course completion issued by state of California Fire Marshal (Fire Service Traning and Education Program - FSTEP). (Certificates include: Confined Space Rescue, Hazardous Materials First Responder operations and Decon, Fire Control 3, Fire Fighter Survival, Vehicle Extrication).
1 $75.00 Fire Fighter 1 State Fire Training Test Registration Fee.
1 $75.00 Fire Fighter 2 State Fire Training Test Registration Fee.
1 $75.00 Fire Fighter 1 Certification Fee.

Identify a specific course objective that cannot be met but for the use of the materials at issue.
Certificates contribute to issuance of State of California Fire Fighter 1 & 2 Certification.

Describe how the material has continuing value outside the classroom.
Yes, industry certifications stay with the student for life and aid in student job placement and career advancement.

Is the amount of materials the students must supply, or the amount that they receive in exchange for the fee that is charged, consistent with the amount of material necessary to meet the required objectives of the course?
Yes

If students pay a fee rather than furnishing their own materials, why do they have to pay a fee rather than supply the materials themselves? Is the district/college the only source of the materials? If not, is there a health or safety reason for the district/college to supply the materials? If not, will the district/college supply the materials more cheaply than they can be obtained elsewhere, AND at the district's/college's actual cost?

District's Regional Fire Academy is a State Fire Marshal Accredited Training facility whose personnel are certified to verify student eligibility for certificates that are required by the program administrator and/or her/his designee. Students can not obtain certificates on their own.

Specify the month and year in which the fee amount, or list of material provided, was reviewed by the host department to ensure that the preceding standards continue to be met.

October, 2020.

Repeatable for Credit

No

Is this course part of a family?

No

Units and Hours

Carnegie Unit Override

No

In-Class

Lecture

Minimum Contact/In-Class Lecture Hours

192.50

Maximum Contact/In-Class Lecture Hours

192.50

Activity

Laboratory

Minimum Contact/In-Class Laboratory Hours

490

Maximum Contact/In-Class Laboratory Hours

490

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

682.50

Total Maximum Contact/In-Class Hours

682.50

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class

Minimum Outside-of-Class Hours

385

Maximum Outside-of-Class Hours
385

Total Student Learning

Total Student Learning
Total Minimum Student Learning Hours
1067.50
Total Maximum Student Learning Hours
1067.50

Minimum Units (CB07)
20
Maximum Units (CB06)
20

Prerequisites
EMT R169, FT R151, FT R154

Corequisites
FT R173

Advisories on Recommended Preparation
FT R161

Limitations on Enrollment
Others (specify)

Other Limitations on Enrollment
Admission to the Fire Academy

Entrance Skills

Entrance Skills
Ability to provide emergency medical care at the Basic Life Support (BLS) level as evidenced by successful completion of the skills testing included in an EMT course, passing the course with a grade of B or better, and certification as an EMT.

Prerequisite Course Objectives
EMT R169-Recognize the chain of human resources that forms the EMS system.
EMT R169-Identify how the public activates the EMS system.
EMT R169-Describe the roles and responsibilities of the EMT.
EMT R169- Define the process of EMS quality improvement.
EMT R169-Identify potential hazards and maintain scene safety.
EMT R169- Describe the kind of stress caused by involvement in EMS and the affect on you, your co-workers and your family.
EMT R169-Demonstrate the use of standard precautions and how to protect yourself from transmitted diseases.
EMT R169-Use body mechanics to lift and move patients.
EMT R169-Identify the various devices used to immobilize, move, and carry patients
EMT R169-Demonstrate when it is proper to move a patient in a safe manner.
EMT R169-Describe the scope of practice of the EMT.
EMT R169-Define the legal concepts of torts, negligence, and abandonment.
EMT R169-Describe the responsibilities of an EMT at a crime scene.
EMT R169- Define patient consent.
EMT R169-Know and define medical terminology relating the body, direction, and position.
EMT R169-Identify the structure and function of the major body systems.
EMT R169-Describe the cardiopulmonary systems and its functions, blood movement, perfusion, and shock.
EMT R169-Describe the respiratory system and its importance with oxygenation and ventilation.
EMT R169-Describe cellular metabolism and the results of alteration from injuries and illnesses.
EMT R169-Describe the physical, mental, and social characteristics of different age groups from infancy to late adulthood.
EMT R169-Recognize an adequate or inadequate airway.
EMT R169-Determine when to use airway adjuncts.
EMT R169-Describe the physiology and pathophysiology of the airway.
EMT R169-Perform proper suctioning techniques.
EMT R169-Perform proper positive pressure ventilation.

EMT R169-Describe the principles and proper techniques of oxygen administration.
EMT R169-Identify scene hazards.
EMT R169-Determine the need for additional resources.
EMT R169-Identify mechanisms of injury and how they relate to the patient condition.
EMT R169-Determine the proper approach to the primary assessment.
EMT R169-Manually stabilize the head and neck.
EMT R169-Assess mental status using AVPU.
EMT R169-Use various monitoring devices.
EMT R169-Obtain and document vital signs: pulse, respiration, blood pressure, skin, temperature, and pupils.
EMT R169- Define the components of the secondary assessment.
EMT R169-Perform detailed physical exam.
EMT R169-Observe trends for reassessment.
EMT R169-Determine the degree of secondary assessment based on mechanism of injury or illness, history, and degree of injury and consciousness.
EMT R169-Describe the legal aspects and benefits of documentation.
EMT R169-Identify the types of verbal and written communication used by emergency medical personnel.
EMT R169-Describe and demonstrate the use of radio communication.
EMT R169-Identify which medications the EMT may help administer to patients.
EMT R169-Describe the role of medical direction in medication administration.
EMT R169-Describe how the EMT may assist in IV therapy.
EMT R169-Treat a patient with breathing difficulty.
EMT R169-Assist a patient with the use of a prescribe inhaler/nebulizer.
EMT R169-Manage a cardiac arrest patient.
EMT R169-Use an AED.
EMT R169-Identify the conditions that may lead to a cardiac emergency.
EMT R169-Identify the aspects of acute cardiac syndrome.
EMT R169-Identify the causes, assessment, and care of diabetes and the emergency associated with diabetes.
EMT R169-Identify the general approaches used to assess patients with altered mental status.
EMT R169-Describe the causes and assessment of sepsis, seizure disorders, stroke, dizziness and syncope.
EMT R169-Describe how to treat a patient experiencing an allergic reaction.
EMT R169-Describe the differences between a mild reaction and anaphylaxis.
EMT R169-Identify who should be assisted with an epinephrine auto-injector.
EMT R169-Describe the treatment and care for ingested, inhaled, injected, and absorbed poisons.
EMT R169- Describe the assessment and care for alcohol and substance abuse.
EMT R169-Identify abdominal conditions that may cause pain or discomfort.
EMT R169- Assess a patient with abdominal pain and discomfort.
EMT R169- Describe the emergency care for behavioral and psychiatric emergencies which include attempted suicide,and hostile patients.
EMT R169-Describe the use of restraints on patient safely and effectively.
EMT R169-Identify the medical and legal considerations in behavioral and psychiatric emergencies.
EMT R169-Identify disorders of the hematologic system and it structure and function.
EMT R169-Identify disorders of the renal system and the causes and consequences of renal failure.
EMT R169-Describe special considerations for patients who have received a kidney transplant.
EMT R169- Recognize patients with complications of end-stage renal disease and dialysis.
EMT R169-Recognize arterial, venous, and capillary bleeding.
EMT R169-Demonstrate control of external bleeding.
EMT R169-Identify the signs, symptoms, and care of a patient with internal bleeding.
EMT R169-Identify the signs, symptoms, and care of a patient with shock.
EMT R169-Evaluate the severity of external bleeding.
EMT R169-Describe the differences between open and closed wounds and the emergency care for each.
EMT R169-Describe the emergency care for burns.
EMT R169-Dress and bandage wounds.
EMT R169-Describe emergency care for electrical injuries.
EMT R169-Describe mechanisms of injury commonly associated with chest and abdominal injuries.
EMT R169-Demonstrate the assessment and management of patients with blunt and penetrating abdominal injuries.
EMT R169-Describe specific chest injuries and the assessment and management of each.
EMT R169-Identify the bones, muscles, and other elements of the musculoskeletal system.
EMT R169-Describe the general guidelines for emergency care of musculoskeletal injuries.
EMT R169-Assess and care for specific injuries to the upper and lower extremities.
EMT R169-Describe the purposes and general/specific procedures for splinting.
EMT R169-Identify the anatomy of the nervous system, head and spine.
EMT R169-Describe skull and brain injuries and the emergency care required.
EMT R169-Describe wounds to the neck and emergency care associated with those wounds.
EMT R169- Demonstrate immobilization techniques and spinal motion restrictions on patients with potential spine injuries.
EMT R169-Describe spine injuries and the emergency care associated with these injuries.
EMT R169-Determine the severity of the trauma patients condition, priority for transport, and appropriate transport destination.
EMT R169-Select critical interventions to implement at the scene for a multiple-trauma patient.
EMT R169-Calculate a trauma score.

EMT R169-Describe how to balance the need for transport against the time needed for treatment.
EMT R169-Describe the effects on the body of hypothermia and cold injuries.
EMT R169-Identify the signs, symptoms, and treatment for drowning and other water related injuries.
EMT R169-Assess and care for hypothermia and local cold injuries.
EMT R169-Describe signs, symptoms, and treatment for bites and stings.
EMT R169-Describe the effects on the body of exposure to heat and the assessment/care of heat exposure.
EMT R169-Describe and identify the anatomy and physiology of the female reproductive system.
EMT R169-Describe the specific care needed for: neonates, mother, and baby before, during and after childbirth.
EMT R169-Identify gynecological emergencies.
EMT R169- Identify the complications of delivery.
EMT R169-Identify the anatomic and physiological characteristics of children.
EMT R169-Assess a pediatric patient.
EMT R169-Describe how to assess and care for various pediatric medical emergencies.
EMT R169- Assess and care for various pediatric trauma emergencies.
EMT R169-Describe how to deal with issues of child abuse and neglect and children with special needs.
EMT R169-Describe the age related changes in the elderly.
EMT R169-Describe the assessment and care for older patients.
EMT R169- Discuss possible indications of elder abuse.
EMT R169-Demonstrate communication techniques with the elderly patient.
EMT R169- Describe illnesses and injuries in older patients.
EMT R169-Describe the variety of challenges that may be faced by patients with special needs.
EMT R169-Identify the types of disabilities and challenges patients may have.
EMT R169-Identify the types of advanced medical devices patients may rely on.
EMT R169-Describe congenital and acquired diseases and conditions of the patient with special challenges.
EMT R169-Determine when and how to use air rescue.
EMT R169-Describe the phases of an ambulance call.
EMT R169-Describe the prep and operation of an ambulance.
EMT R169-Demonstrate call termination and preparing the ambulance for the next call.
EMT R169-Demonstrate transferring and transporting the patient.
EMT R169-Identify and take appropriate action in a hazardous materials incident.
EMT R169-Identify a multiple-casualty incident.
EMT R169-Explain the incident command system.
EMT R169-Define triage.
EMT R169-Identify transportation and staging logistics.
EMT R169-Discuss the psychological aspects of multiple-casualty incidents.
EMT R169- Describe how to position emergency apparatus in a safe manner depending on the situation.
EMT R169-Recognize and manage hazards at a highway rescue scene.
EMT R169-Describe how to stabilize, gain access and disentangle a patient.
EMT R169-Describe the types of terrorism.
EMT R169-Identify types of threats posed by a terrorist event.
EMT R169-Practice tactical care during a mock terrorist event drill.
EMT R169-Describe the strategies, tactics and counter measures at a terrorist event.
EMT R169-Describe the self-protection and safety strategies at a terrorist event.

Entrance Skills

Understanding of career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introductory fire protection systems; introductory fire strategy and tactics; and life safety initiatives.

Prerequisite Course Objectives

FT R151-Describe the components and development of the fire and emergency services.
FT R151-Recognize and Illustrate the history of the fire service.
FT R151-Recognize careers in fire and emergency services.
FT R151-Illustrate and explain the history and culture of the fire service.
FT R151-Analyze the basic components of fire as a chemical chain reaction, the major phases of fire, and examine the main factors that influence fire spread and fire behavior.
FT R151-Differentiate between fire service training and education and explain the value of higher education to the professionalization of the fire service.
FT R151-List and describe the major organizations that provide emergency response service and illustrate how they interrelate.
FT R151-Identify fire protection and emergency-service careers in both the public and private sector.
FT R151-Define the role of national, State and local support organizations in fire and emergency services.
FT R151-Discuss and describe the scope, purpose, and organizational structure of fire and emergency services.
FT R151-Describe the common types of fire and emergency service facilities, equipment, and apparatus.
FT R151-Compare and contrast effective management concepts for various emergency situations.
FT R151-Identify the primary responsibilities of fire prevention personnel including, code enforcement, public information, and public and private protection systems.

FT R151-Recognize the components of career preparation and goal setting.
FT R151-Describe the importance of wellness and fitness as it relates to emergency services.

Entrance Skills

An understanding of the theory of how fires start, spread, and are controlled; the fundamentals of fire behavior in an open and closed environment; fire chemistry and physics; burn characteristics of materials; and techniques for controlling fires through the use of a variety of proven and newly developed extinguishing agents.

Prerequisite Course Objectives

FT R154-Identify the fundamental theories of fire behavior and combustion.
FT R154-Explain basic terminology, definitions, and phenomena of chemistry.
FT R154-Identify some of the basic chemical symbols used in chemical formula writing.
FT R154-Explain the importance of the various physical properties of the three states of matter as they relate to fire.
FT R154-Identify how physical forces caused by fire can affect the changes in the physical states of matter.
FT R154-Identify the Department of Transportation warning placards and labeling systems.
FT R154-Describe the Department of Transportation Hazard Class system.
FT R154-Identify various methods and techniques of fire extinguishment.
FT R154-Compare and contrast the four basic methods of fire extinguishment.
FT R154-Compare and contrast desirable and undesirable characteristics of water as used in fire protection.
FT R154-Categorize the components of fire.
FT R154-Describe and apply the process of burning.
FT R154-Discuss various materials and their relationship to fires as fuel.
FT R154-Articulate other suppression agents and strategies.
FT R154-Describe the basic laws of differentiating matter and energy.

Requisite Justification

Requisite Type
Prerequisite

Requisite
FT R151

Requisite Description
Course in a sequence

Level of Scrutiny/Justification
Content review

Requisite Type
Prerequisite

Requisite
EMT R169

Requisite Description
Course not in a sequence

Level of Scrutiny/Justification
Required by statute or regulation

Requisite Type
Corequisite

Requisite
FT R173

Requisite Description
Corequisite

Level of Scrutiny/Justification
Content review

Requisite Type
Advisory

Requisite
FT R161

Requisite Description
Course in a sequence

Level of Scrutiny/Justification
Content review

Requisite Type
Prerequisite

Requisite
FT R154

Requisite Description
Course in a sequence

Level of Scrutiny/Justification
Required by statute or regulation

Student Learning Outcomes (CSLOs)

	Upon satisfactory completion of the course, students will be able to:
1	Describe the value of accountability that includes evaluating the safe practices of a given action.
2	Display behavior consistent with the ethical standards within the fire service to include exhibiting a positive, professional and confident demeanor.
3	Recognize the role fire fighter fitness and well-being plays in becoming a fire fighter.
4	Identify various assignments and functional positions within a fire agency while utilizing the chain of command during operations.
5	Function as a team member and work effectively in team settings as it relates to the job performances of emergency services.
6	Differentiate between fire hose supply and attack lines and the manner in which these lines are loaded and stored on fire apparatus.
7	Analyze a given structure to determine the appropriate size ladder then effectively and safely place that ladder on the structure.
8	Show proficiency in the recognition, operation and maintenance of firefighting hand, power and electrical tools and equipment.
9	Demonstrate the appropriate use of firefighting tools to successfully gain entry into a given structure.
10	Assess the role of a fire fighter in fire department organizations and be able successfully integrate into an appropriate role within the organization.
11	Explain basic fire chemistry and physics to extinguish different types of fires.
12	List safety and risk management techniques to all functions and aspects of firefighting, personal protective equipment, fire suppression equipment and building construction.
13	Apply and maintain firefighting equipment used by fire fighters in the suppression of different types of fires, rescues and hazard mitigation.
14	Apply basic laboratory skills learned in a methodical, expedient, safe and strategic manner in real life simulations.
15	Apply knowledge and skills for a fire fighter to locate, control and extinguish an interior structure fire.
16	Maintain and safely operate a fork lift to manufacturer's standards for the power machinery.

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1	Fire Fighter 1A - Lecture Objectives: 1. Identify the different levels of certification in the Fire Fighter certification track 2. Identify the prerequisites for certification 3. Identify the course work required for certification 4. Identify the exams required for certification 5. Identify the task book requirements for certification 6. Identify the experience requirements for certification 7. Identify the position requirements for certification 8. Describe the certification task book process 9. Describe the certification examination process 10. Describe the organization of the fire department 11. Define the role of Fire Fighter 1 in the organization 12. Describe the mission of the fire service 13. Describe fire department standard operating procedures 14. Describe fire department rules and regulations as they apply to the Fire Fighter 1 15. Describe the value of fire and life safety initiatives in support of the fire department mission and to reduce fire fighter line-of-duty injuries and fatalities 16. Identify the role of other agencies as they relate to the fire department 17. Explain the principles and basic structure of the Incident Command System (ICS) 18. Describe the National Incident Management System (NIMS) management characteristics that are the foundation of the ICS 19. Describe the ICS functional areas and the roles of the Incident Commander and Command Staff 20. Describe the General Staff roles within ICS 21. Identify how NIMS management characteristics apply to ICS for a variety of roles and discipline areas 22. List common types of accidents and injuries and identify their causes 23. Describe how physical fitness and a healthy lifestyle correspond to fire fighter performance 24. Define the critical aspects of NFPA 1500: Standard on Fire Department Occupational Safety and Health Program (current edition) 25. Describe how fire and life safety initiatives support a fire department's mission to reduce fire fighter line-of-duty injuries and deaths 26. Explain the importance of standards for structural personal protective ensemble 27. Identify the components of structural PPE 28. Describe the protection provided by structural PPE 29. Describe the limitations of structural PPE 30. Identify manufacturer guidelines for correct PPE use 31. Identify when and how to don and doff PPE 32. Describe how improper usage or maintenance can compromise PPE effectiveness 33. Describe proper method for inspecting, cleaning and maintaining structural PPE 34. Identify when and describe how to remove PPE from service 35. Outline how to Inspect, clean and maintain structural PPE 36. Define "IDLH" 37. Identify conditions requiring respiratory protection 38. Explain the importance of standards for SCBA 39. Describe the protection provided by, uses of, and limitations of SCBA 40. Describe potential long-term consequences of exposure to products of combustion 41. Identify the components of SCBA 42. Describe operational inspection procedures for SCBA 43. Describe different donning procedures 44. Identify manufacturer guidelines for correct SCBA use 45. Describe how improper fit, usage, or maintenance can compromise SCBA effectiveness 46. Identify when and how to doff respiratory protection 48. Identify proper methods for inspecting, cleaning and maintaining SCBA 49. Identify when and describe how to remove SCBA from service 50. Describe different breathing techniques 51. Describe how to monitor and manage air consumption 52. Describe emergency indicators and emergency procedures for SCBA 53. Identify physical requirements of the SCBA wearer 54. Identify and troubleshoot problems associated with SCBA use 55. Identify the purpose and benefits of gross decontamination 56. Identify parts of the body most susceptible to contaminate exposure 57. Identify common routes of exposure 58. Describe how to conduct on-site gross decontamination 59. Describe how to doff SCBA and PPE to reduce exposure to field contaminants 60. Describe how to tag and transport contaminated SCBA and PPE 61. Identify personal decontamination processes 62. Describe mounting and dismounting procedures for riding an apparatus 63. Identify hazards and ways to avoid hazards associated with riding an apparatus 64. Describe prohibited practices 65. Identify different types of department PPE and their use(s)

2	Fire Fighter 1A - Laboratory Outcomes: 1. Don structural PPE 2. Doff structural PPE 3. Demonstrate controlled breathing techniques 4. Replace SCBA air cylinders 5. Use an SCBA to exit through restricted passages 6. Initiate and complete emergency procedures in the event of SCBA failure or air depletion 7. Demonstrate how to return PPE to a ready state 8. Perform operational inspection for a self-contained breathing apparatus 9. Monitor and manage air consumption 10. Locate information in departmental documents and standard or code materials 11. Deploy traffic and scene control devices 12. Dismount an apparatus 13. Operate fire department communications equipment 14. Operate fire department radios and equipment 15. Tie knots various fire service knots 16. Hoist tools using specific knots based on the type of tool 17. Transport, operate, and maintain hand and power tools 18. Operate department power supply and lighting equipment 19. Deploy cords and connectors 20. Reset ground-fault interrupter (GFI) devices 21. Safely carry portable fire extinguishers 22. Approach fire with portable fire extinguishers 23. Operate portable fire extinguishers 24. Clean different types of hose 25. Operate hose washing and drying equipment 26. Document all exposures, injuries, and illnesses within AHJ reporting system 27. Replace coupling gaskets 28. Open, close, and adjust nozzle flow and patterns 29. Couple and uncouple various hose line connections 30. Roll hose 31. Carry hose 32. Reload hose 33. Replace burst hose sections 34. Hand lay a supply hose 35. Connect and place hard suction hose for drafting operations 36. Deploy portable water tanks and the equipment necessary to transfer between and draft from them 37. Make hydrant-to-engine hose connections for forward and reverse lays 38. Connect a supply hose to a hydrant 39. Fully open hydrant when hose is connected 40. Fully close hydrant when operation ends 41. Operate utility control valves or switches 42. Lift and carry ladders 43. Move and place ladder to avoid obvious hazards 44. Raise and extend ladders and lock flies 45. Secure ground ladders 46. Demonstrate proper climbing techniques 47. Operate from ground ladders 48. Demonstrate leg lock method 49. Mount, ascend, dismount, and descend ladders 50. Transport and operate hand and power tools used in forcible entry 51. Force entry through doors, locks, windows, and walls using assorted methods and tools 52. Demonstrate a primary and secondary search 53. Demonstrate victim removal methods 54. Set up and use different types of ladders for various types of rescue operations 55. Remove the victim down a ladder 56. Rescue a fire fighter with functioning respiratory protection 57. Rescue a fire fighter whose respiratory protection is not functioning 58. Rescue a person who has no respiratory protection 59. Use SCBA to exit through restricted passages 60. Apply water using direct, indirect, and combination attacks 61. Advance charged and uncharged hand lines of 1½-inch diameter or larger up ladders and up and down interior and exterior stairways 62. Operate charged hand lines of 1½-inch diameter or larger while secured to a ground ladder 63. Demonstrate how to attack fires below grade, at grade, and above grade 64. Locate and suppress interior wall and subfloor fires 65. Transport and operate ventilation tools and equipment and ladders 66. Use safe procedures for breaking window and door glass and removing obstructions 67. Horizontally ventilate a structure 68. Transport and operate ventilation tools and equipment and ladders 69. Select, carry, deploy, and secure ground ladders for ventilation activities 70. Determine that a wall and roof will support the ladder

3	Fire Fighter 1B - Lecture Objectives: 1. Identify the role of awareness personnel at a hazardous materials and weapons of mass destruction, WMD, incident per CCR Title 8, §5192(q)(6)(A), First Responder, Awareness Level (FRA): 2. Identify the location and contents of the AHJ emergency response plan 3. Describe standard operating procedures for awareness personnel 4. Describe how to recognize hazardous materials and WMD 5. List basic hazards associated with classes and divisions 6. Identify indicators to the presence of hazardous materials including: 7. Describe how to access information from the Emergency Response Guidebook (ERG) (current edition) using name of the material, UN/NA identification number, placard applied, or container identification charts 8. List types of hazard information available from: 9. Recognize indicators to the presence of hazardous materials/WMD 10. Identify hazardous materials/WMD by name, UN/NA identification number, placard applied, or container identification charts 11. Describe how to use the ERG, SDS, shipping papers with emergency response information, and other approved reference sources to identify precautions to be taken to protect responders and the public 12. Describe policies and procedures for isolating the hazard area and denying entry 13. Identify the purpose of and methods for isolating the hazard area and denying entry 14. Recognize precautions for protecting responders and the public 15. Identify isolation areas 16. Outline Deny entry 17. Describe how to avoid or minimize hazards 18. Identify policies and procedures for notification, reporting, and communications 19. Identify six general information items needed for mandatory notifications 20. List types of approved communications equipment 21. Describe how to operate equipment 22. Identify the role of operations level responders at a hazardous materials/WMD incident per CCR Title 8, §5192(q)(6)(B), First Responder, Operations Level (FRO) 23. Identify the location and contents of AHJ emergency response plan and standard operating procedures for operations level responders, including those response operations for hazardous materials/WMD incidents 24. Define hazard classes and divisions 25. Identify types of containers 26. Identify container identification markings, including piping and pipeline markings and contacting information 27. Identify types of information to collect during the hazardous materials/WMD incident survey 28. Identify the availability and location of transportation shipping papers and safety data sheets (SDS) at facilities 29. Describe types of hazard information available from and how to contact: 30. Describe how to communicate with carrier representatives to reduce impact of a release 31. Identify basic physical and chemical properties, including: 32. Identify the behavior and hazards of a material and its container based on the material's physical and chemical properties and the surrounding conditions 33. List examples of potential criminal and terrorist targets 34. Identify indicators of possible criminal or terrorist activity for each of the following: 35. Describe additional hazards associated with terrorist or criminal activities, such as secondary devices 36. Determine the likely harm and outcomes associated with the identified behavior and the surrounding conditions 37. Describe types of PPE and the hazards for which they are used 38. Describe policies and procedures for PPE selection and use 39. Describe the importance of working under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures when selecting and using PPE 40. Identify the capabilities and limitations of and specialized donning, doffing, and usage procedures for approved PPE 41. Describe procedures for approved PPE 42. Describe procedures for reporting and documenting the use of PPE 43. Describe how to clean, disinfect, and inspect tools, equipment, and PPE 44. Define contamination, cross contamination, and exposure 45. Describe contamination types 46. List routes of exposure 47. Identify types of decontamination 48. Describe the purpose, advantages, and limitations of emergency decontamination 49. Describe policies and procedures for performing emergency decontamination 50. Identify approved tools and equipment for emergency decontamination 51. Describe hazard avoidance for emergency decontamination 52. Select an emergency decontamination method 53. Identify policies and procedures for hazardous materials/WMD incident operations 54. List the basic components of an incident action plan (IAP) 55. Describe modes of operation 56. Describe types of response objectives 57. Describe types of action options 58. Identify types of response information available from: 59. Describe safety procedures 60. Describe risk analysis concepts 61. Identify the purpose, advantages, limitations, and uses of approved PPE to determine if PPE is suitable for the incident conditions

4	Fire Fighter 1B - Laboratory Objectives: 1. Use the ERG, SDS, shipping papers with emergency response information, and other approved reference sources to identify hazardous materials/WMD and their potential fire, explosion, and health hazards 2. Operate approved communications equipment and Communicate in accordance with policies and procedures 3. Inspect, maintain, store, don, work in, and doff PPE 4. Go through decontamination (emergency and technical) while wearing the PPE 5. Report and document the use of PPE 6. Set up emergency decontamination in a safe area 7. Select PPE for the assignment 8. Use PPE in the proper manner 9. Implement emergency decontamination 10. Prevent spread of contamination 11. Avoid hazards during emergency decontamination 12. Inspect, don, work in, go through decontamination while wearing, and doff approved PPE 13. Isolate contaminated tools, equipment, and PPE 14. Conduct gross decontamination of contaminated personnel, tools, equipment, and PPE in the field 15. Clean, disinfect, and inspect approved tools, equipment, and PPE 16. Select and use PPE 17. Select and perform product control techniques to confine/contain the release with limited risk of personal exposure 18. Use approved control agents and equipment on a release involving hazardous materials/WMD 19. Use remote control valves and emergency shutoff devices on cargo tanks and intermodal tanks in transportation and containers at fixed facilities 20. Perform product control techniques 21. Collect hazard information 22. Communicate with pipeline operators or carrier representatives

5	Fire Fighter 1C - Lecture Objectives: 1. Describe types of wildland fires 2. Describe the fire fighter's role within the local incident management system 3. Describe basic safety roles and responsibilities of the wildland fire fighter 4. Describe basic wildland fire behavior 5. Identify wildland fire suppression techniques and tactics 6. Describe basic wildland fire behavior 7. Identify the three sides of the fire triangle 8. Identify environmental factors that affect the start and spread of wildland fire 9. Describe contributing factors that indicate potential for increased fire behavior that may compromise safety 10. Describe basic wildland fire safety: 10 Standard Fire Orders, 18 Watch-out Situations, LCES, Common Denominators of Fire Behavior on Tragedy Fires, Downhill line construction, Avoiding fire entrapment, Using a vehicle or a structure as refuge 11. Describe hazards associated with working around aircraft 12. Describe hazards associated with working around heavy equipment 13. Identify human performance factors in high-risk work environments 14. Describe basic verbal communications 15. Identify common barriers to good listening 16. Identify basic communication responsibilities 17. Identify the components of wildland PPE 18. Explain the importance of standards for wildland PPE 19. Describe the protection provided by and limitations of wildland PPE 20. Describe fire line safety and use of PPE 21. Identify manufacturer guidelines for correct PPE use 22. Identify when it is safe to doff wildland PPE 23. Identify AHJ policies and procedures for doffing wildland PPE 24. Describe how to inspect wildland PPE 25. Describe how to recognize when PPE should be removed from service 26. Describe proper cleaning procedures for wildland PPE 27. Describe how to maintain wildland PPE 28. Describe AHJ policy on fire shelter use 29. Describe the protection provided by and limitations of fire shelters 30. Describe how to inspect and evaluate a fire shelter 31. Describe how to select and prepare a shelter deployment site 32. Describe AHJ policy of fire shelter use 33. Identify items to take into and leave outside a fire shelter 34. Describe methods for deploying a fire shelter: Standing-to-sitting method, Standing drop-down method, Lying down method 35. Identify when to deploy and exit a fire shelter during an incident 36. Identify wildland fire fighting tools and equipment 37. Describe how to use wildland fire fighting tools and equipment 38. Describe how to inspect tools and equipment 39. Describe how to maintain and care for tools and equipment 40. Describe how to recognize when tools and equipment should be removed from service 41. Identify personnel and equipment requirements for response 42. Identify AHJ time standards 43. Identify special transportation considerations 44. Describe operational procedures for various response modes 45. Describe AHJ safety response guidelines 46. Describe basic wildland suppression strategy 47. Identify basic wildland suppression tactics 48. Describe the principles, techniques, and standards of fireline construction 49. Describe how to construct a handline 50. Describe how to perform mobile attack 51. Describe how to perform a simple hose lay 52. Describe how to perform a progressive hose lay 53. Describe how to retrieve hose 54. Describe fireline improvement techniques 55. Describe safety considerations 56. Describe how to use basic ignition devices 57. Describe wildland fire behavior within the wildland/urban interface 58. Describe how to reduce fuel for structure defense 59. Identify structure defense tactical actions 60. Identify structure triage categories 61. Identify the difference between a safety zone and a temporary refuge area (TRA) 62. Identify equipment and personnel capabilities within the wildland/urban interface 63. Describe principles, techniques, and standards for mop up 64. Describe the principles, techniques, and standards of patrol 65. Identify hazards associated with mop-up operations: Human hazards, Environmental hazards

6	Fire Fighter 1C - Laboratory Objectives: 1. Assume safe position for an air tanker drop 2. Use fireline flagging 3. Use the Incident Response Pocket Guide (IRPG) 4. Assume safe position for an air tanker drop 5. Use the Incident Response Pocket Guide (IRPG) 6. Don wildland PPE 7. Doff wildland PPE 8. Return PPE to a ready state 9. Deploy a fire shelter within 30 seconds 10. Perform required maintenance techniques 11. Sharpen assigned suppression equipment 12. Perform other maintenance techniques for assigned suppression equipment 13. Use required maintenance equipment 14. Use wildland tools correctly: Fusees, Drip torches, Back pumps, Round point shovel, Pulaski, Mcleod, Brush hook, Single and double bit axe, Wire broom, Rhino tool, Combi tool, Power equipment, Chain saw, Pump, Pole saw 15. Construct a handline 16. Perform mobile attack 17. Perform a simple hose lay 18. Perform progressive hose lay 19. Retrieve hose 20. Apply fire streams 21. Apply extinguishing agents 22. Use basic ignition devices 23. Prepare a structure for structure defense 24. Conduct structure defense within the wildland/urban interface 25. Use basic tools to perform mop-up operations 26. Use basic techniques to perform mop-up operations 27. Assemble and operate a back pump

7	Fire Fighter 2A - Lecture Objectives: 1. Identify the different levels of certification in the Fire Fighter certification track 2. Identify the prerequisites for Fire Fighter 2 certification 3. Identify the course work required for Fire Fighter 2 certification 4. Identify the certification exams required for Fire Fighter 2 certification 5. Identify the task book requirements for Fire Fighter 2 certification 6. Identify the experience requirements for Fire Fighter 2 certification 7. Identify the position requirements for Fire Fighter 2 certification 8. Describe the certification task book process 9. Describe the certification examination process 10. Describe the responsibilities of the Fire Fighter 2 in assuming and transferring command within an incident command system (ICS) 11. Describe how to perform assigned duties in conformance with applicable NFPA standards, other safety regulations, and AHJ procedures 12. Identify the role of a Fire Fighter 2 within the organization 13. Determine the need for command 14. Organize and coordinate an incident command system until command is transferred 15. Function within an assigned role in an incident management system 16. Identify content requirements for basic incident reports 17. Identify the purpose and usefulness of accurate reports 18. Identify consequences of inaccurate reports 19. Describe how to obtain necessary report information 20. Identify required coding procedures 21. Determine necessary codes 22. Outline how to proof reports 23. Demonstrate fire department computers or other equipment necessary to complete reports 24. Describe standard operating procedures (SOPs) for alarm assignments 25. Describe fire department radio communication procedures 26. Describe how foam prevents or controls a hazard 27. List principles by which foam is generated 28. Identify causes of and corrective measures for poor foam generation 29. Describe the difference between hydrocarbon and polar solvent fuels and the concentrates that work on each 30. Identify the characteristics, uses, and limitations of fire-fighting foams 31. Describe the advantages and disadvantages of using fog nozzles versus foam nozzles for foam application 32. Describe foam stream application techniques 33. List hazards associated with foam usage 34. Describe methods to reduce or avoid hazards 35. Identify characteristics of pressurized flammable gases 36. List elements of a gas cylinder 37. Describe effects of heat and pressure on closed cylinders 38. Describe boiling liquid expanding vapor explosion (BLEVE) signs and effects 39. Describe methods for identifying contents 40. Describe how to identify safe havens before approaching flammable gas cylinder fires 41. Describe water stream usage and demands for pressurized cylinder fires 42. Describe what to do if the fire is prematurely extinguished 43. Identify valve types and their operation 44. Describe alternative actions related to various hazards and when to retreat 45. Describe how to select the nozzle and hose for fire attack 46. Describe how to select adapters and appliances to be used for specific fireground situations 47. Identify dangerous building conditions created by fire and fire suppression activities 48. Describe indicators of building collapse 49. List indicators of structural instability 50. Describe the effects of fire and fire suppression activities on wood, masonry (brick, block, stone), cast iron, steel, reinforced concrete, gypsum wallboard, glass, and plaster on lath 51. Describe coordinated search and rescue and ventilation procedures 52. Describe suppression approaches and practices for various types of structural fires 53. Describe the association between specific tools and special forcible entry needs 54. Choose attack techniques for various levels of a fire (e.g., attic, grade level, upper levels, or basement) 55. Incorporate search and rescue procedures and ventilation procedures in the completion of the attack team efforts 56. Determine developing hazardous building or fire conditions 57. Identify methods to assess fire origin and cause 58. List types of evidence 59. Describe means to protect various types of evidence 60. Identify the role and relationship a Fire Fighter 2 during fire investigations with Criminal investigators and Insurance investigators 61. Describe the effects and problems associated with removing property or evidence from the scene 62. Describe how to protect the evidence 63. Describe the fire department's role at a vehicle accident 64. Describe points of strength and weakness in auto body construction 65. Describe dangers associated with vehicle components and systems 66. Describe the uses and limitations of hand and power extrication equipment 67. Describe safety procedures when using various types of extrication equipment

8	Fire Fighter 2A - Laboratory Objectives: 1. Demonstrate proper operation of fire department communications equipment 2. Prepare a foam concentrate (or suitable substitute) for use 3. Assemble foam stream components 4. Master various foam application techniques 5. Approach and retreat from spills as part of a coordinated team. 6. Execute effective advances and retreats 7. Apply various techniques for water application 8. Assess cylinder integrity and changing cylinder conditions 9. Operate control valves 10. Choose effective procedures when conditions change 11. Operate hand and power tools used for forcible entry and rescue as designed 12. Use cribbing and shoring material 13. Use stabilization tools and equipment 14. Choose and apply appropriate techniques for moving or removing vehicle roofs, doors, seats, windshields, windows, steering wheels or columns, and the dashboard 15. Sketch the site, buildings, and special features 16. Operate power plants, power tools, and lighting equipment 17. Operate hose testing equipment and nozzles and record results 18. Assemble a team 19. Evaluate and forecast a fire's growth and development 20. Select tools for forcible entry 21. Locate the fire's origin area 22. Outline how to recognize possible fire causes 23. Establish public barriers 24. Assist rescue teams as a member of the team when assigned 25. Complete forms 26. Recognize hazards 27. Match findings to preapproved recommendations 28. Effectively communicate findings to occupants or referrals 29. Document presentations 30. Use prepared materials 31. Detect hazards and special considerations to include in the pre-incident sketch 32. Complete all related AHJ documentation 33. Select correct tools 34. Follow guidelines
9	Fire Control 3 Stuctural Fire Fighting: 1. Topic 1-2: A student, given a qualifications list, will be able to submit all required qualifications in order to participate in Fire Control 3: Structural Fire Fighting. 2. Topic 1-3: A student, given PPE and a live fire training environment, will be able to recognize, report, and mitigate cardiovascular and thermal strain and initiate personnel rehabilitation activities in order to prevent or reduce injury and illness during structural fire fighting. 3. Topic 2-1 A student, given an assignment, will be able to identify, define, and describe fire science concepts and appropriately apply them to interior structural firefighting activities.
10	Fire Fighter 2 - Laboratory Objectives: 1. FF2; Skill Sheet: 5-4; Maintain power tools and equipment 2. Safely operate a medium duty fork lift to effectively move palletized instructional supplies for training purposes.

Course Content

Lecture/Course Content

1. Fire Fighter 1A (Structural)
Unit 1: Introduction
Topic 1-1: Orientation and Administration
Topic 1-2: Fire Fighter 1 and 2 Certification Process
Topic 1-3: Fire Fighter 1 Roles and Responsibilities
Unit 2: Fire Fighter Safety
Topic 2-1: Operating within the Incident Command System
Topic 2-2: Health and Safety Awareness
Topic 2-3: Behavioral Health and Cancer Awareness
Unit 5: Structural Fire Suppression
Topic 5-1: Building Construction
Topic 5-2: Fire Behavior
Unit 8: Fire Service Applications, Interviewing Techniques and Oral Boards
Unit 9: Fire Service Ethics and Leadership

2. Fire Fighter 1B (Hazardous Materials)
Unit 1: Introduction
Topic 1-1: Orientation and Administration
Unit 2: Hazardous Materials and Weapons of Mass Destruction, WMD, Awareness
Topic 2-1: Description of Duties (Awareness)
Topic 2-2: Recognizing and Identifying Hazardous Materials and Weapons of Mass Destruction, WMD and Associated Hazards
Topic 2-3: Isolating the Hazard Area and Denying Entry
Topic 2-4: Initiating Required Notifications
Unit 3: Hazardous Materials and Weapons of Mass Destruction, WMD Operations
Topic 3-1: Description of Duties (Operations)
Topic 3-2: Identifying the Scope of a Hazardous Materials and Weapons of Mass Destruction, WMD Incident
Topic 3-3: Selecting, Donning, Working In, and Doffing Approved PPE at a Hazardous Materials and Weapons of Mass Destruction, WMD Incident
Topic 3-4: Performing Emergency Decontamination at a Hazardous Materials and Weapons of Mass Destruction, WMD Incident
Topic 3-5: Identifying Action Options for a Hazardous Materials and Weapons of Mass Destruction, WMD Incident
Topic 3-6: Performing Assigned Tasks at a Hazardous Materials and Weapons of Mass Destruction, WMD Incident
Topic 3-7: Performing Product Control Techniques at a Hazardous Materials and Weapons of Mass Destruction, WMD Incident
Topic 3-8: Evaluating and Reporting Progress for a Hazardous Materials and Weapons of Mass Destruction, WMD Incident

3. Fire Fighter 1C (Wildland)
Unit 1: Introduction
Topic 1-3: Wildland Fire Fighter Roles and Responsibilities
Unit 2: Preparation
Topic 2-1: Wildland Fire Behavior
Topic 2-2: Recognizing Hazards and Unsafe Situations
Topic 2-3: Human Factors on the Fireline
Topic 3-4: Reducing the Threat of Fire Exposure to Improved Properties (WUI)

4. Fire Fighter 2A (Structural)
Unit 1: Introduction
Topic 1-3: Fire Fighter 2 Roles and Responsibilities
Unit 2: Fire Department Communications
Topic 2-1: Completing a Basic Incident Report
Topic 2-2: Communicating the Need for Team Assistance

Laboratory or Activity Content

1. Fire Fighter 1A (Structural)
Unit 2: Fire Fighter Safety
Topic 2-1: Operating within the Incident Command System
Topic 2-4: Structural Personal Protective Ensemble
Topic 2-5: Self-Contained Breathing Apparatus
Topic 2-6: Using SCBA During Emergency Operations
Topic 2-7: Doffing SCBA and PPE for Gross Decontamination
Topic 2-8: Responding on an Apparatus to an Emergency Scene
Topic 2-9: Establishing and Operating in Work Areas at Emergency Scenes
Unit 3: Communications
Topic 3-1: Receiving a Non-Emergency Telephone Call
Topic 3-2: Initiating a Response to a Reported Emergency
Topic 3-3: Transmitting and Receiving Messages Via Radio
Unit 4: Fire Tools and Equipment
Topic 4-1: Utilizing Ropes and Knots
Topic 4-2: Utilizing Hand and Power Tools
Topic 4-3: Operating Emergency Scene Lighting
Topic 4-4: Operating an Air-Monitoring Instrument
Unit 5: Structural Fire Suppression
Topic 5-3: Extinguishing Fire with Fire Extinguishers
Topic 5-4: Water Supply Systems
Topic 5-5: Cleaning, Inspecting, and Returning Fire Hose to Service
Topic 5-6: Deploy and Connect Fire Hose
Topic 5-7: Utility Control at Emergencies
Topic 5-8: Cleaning, Inspecting, and Maintaining Fire Service Ladders
Topic 5-9: Ground Ladder Operations
Topic 5-10: Forcing Entry into a Structure
Topic 5-11: Conducting a Search and Rescue Operation in a Structure
Topic 5-12: Attacking an Interior Structure Fire
Topic 5-13: Horizontal Ventilation Operations
Topic 5-14: Vertical Ventilation Operations
Topic 5-15: Conserving Property
Topic 5-16: Overhauling a Fire Scene

Unit 6: Fire Fighter Survival
Topic 6-1: Structural Fire Fighter Survival
Unit 7: Suppression of Fires Outside of a Structure
Topic 7-1: Extinguishing Fires in Exterior Class A Materials
Topic 7-2: Attacking a Passenger Vehicle Fire
Topic 7-3: Combating a Ground Cover Fire
2. Fire Fighter 1B (Hazardous Materials)
Topic 2-2: Recognizing and Identifying Hazardous Materials/WMD and Associated Hazards
Topic 2-3: Isolating the Hazard Area and Denying Entry
Topic 2-4: Initiating Required Notifications
Unit 3: Hazardous Materials/WMD Operations
Topic 3-3: Selecting, Donning, Working In, and Doffing Approved PPE at a Hazardous Materials/WMD Incident
Topic 3-4: Performing Emergency Decontamination at a Hazardous Materials/WMD Incident
Topic 3-5: Identifying Action Options for a Hazardous Materials/WMD Incident
Topic 3-6: Performing Assigned Tasks at a Hazardous Materials/WMD Incident
Topic 3-7: Performing Product Control Techniques at a Hazardous Materials/WMD Incident
Topic 3-8: Evaluating and Reporting Progress for a Hazardous Materials/WMD Incident

3. Fire Fighter 1C (Wildland)
Topic 2-4: Donning, Doffing, and Maintaining Wildland Personal Protective Equipment
Topic 2-5: Deploying a Fire Shelter
Topic 2-6: Maintaining Assigned Suppression Hand Tools and Equipment
Unit 3: Suppression
Topic 3-1: Assembling and Preparing for Response
Topic 3-2: Constructing a Fireline
Topic 3-3: Securing a Fireline
Topic 3-4: Reducing the Threat of Fire Exposure to Improved Properties (WUI)
Topic 3-5: Mopping Up in a Fire Area
Topic 3-6: Patrolling the Fire Area

4. Fire Fighter 2A (Structural)
Unit 2: Fire Department Communications
Topic 2-1: Completing a Basic Incident Report
Topic 2-2: Communicating the Need for Team Assistance
Unit 3: Fireground Operations
Topic 3-1: Extinguishing an Ignitable Liquid Fire
Topic 3-2: Controlling a Flammable Gas Cylinder Fire
Topic 3-3: Coordinating an Interior Attack Line
Topic 3-4: Protecting Evidence of Fire Cause and Origin
Unit 4: Rescue Operations
Topic 4-1: Extricating a Victim Entrapped in a Motor Vehicle
Topic 4-2: Assisting Rescue Operation Teams
Unit 5: Fire and Life Safety
Topic 5-1: Performing a Fire Safety Survey in an Occupied Structure
Topic 5-2: Presenting Fire Safety Information to Station Visitors or Small Groups
Topic 5-3: Preparing a Preincident Survey
Topic 5-4: Maintaining Power Plants, Power Tools, and Lighting Equipment
Topic 5-5: Performing an Annual Service Test on Fire Hose

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Written expression
Problem solving exercises
Skills demonstrations

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Film/video productions
Group projects
Individual projects
Objective exams
Oral analysis/critiques
Problem-solving exams
Quizzes
Reports/papers
Simulations
Skills demonstrations

Skills tests or practical examinations
Projects
Problem-Solving Assignments

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Audio-visual presentations
Case studies
Class activities
Class discussions
Collaborative group work
Computer-aided presentations
Demonstrations
Distance Education
Field experience/internship
Field trips
Group discussions
Guest speakers
Instructor-guided interpretation and analysis
Instructor-guided use of technology
Internet research
Laboratory activities
Lecture
Role-playing
Small group activities

Describe specific examples of the methods the instructor will use:

1. The instructor will lecture on care and maintenance of ropes and demonstrate how to tie knots and hitches used in the fire service. Students will then practice tying the knots and hitches demonstrated. (FF1A Lab Obj. 16.)
2. Following a lecture on ladder placement for rescuing a victim from a 2nd story window, students will demonstrate proper placement of ladder and perform rescue. (Laboratory FF1A Lab Objective 50)
3. Following the lecture on fire fighter fatalities, students will work in groups and prepare a power-point presentation outlining the circumstances surrounding an assigned fire fighter fatality and present to class. Grading will be based on a rubric provided to the students.

Representative Course Assignments

Writing Assignments

1. A cadet is expected to submit written homework from workbook assignments prior to the given week of classroom or drill instruction
2. A cadet will submit written call narratives, author training bulletins for tool use and submit press releases for a given event.
3. Given written scenarios, prepare a written response on how to manage an auto extrication rescue incident, applying information presented in class and from assigned text.
4. A cadet will solve problems related to fire suppression techniques in wild-land incidents and present conclusions in writing on a Fema ICS 214 form.
5. Essay examinations related to lecture topics. For Example: cadets will describe how fire affects the four basic building materials in use today. Essay will be evaluated based upon accuracy and development of description Rubric Grading.

Critical Thinking Assignments

1. The instructor will facilitate classroom discussion on case studies of fire fighter injuries and deaths during wild-land operations and identify how these incidents can be avoided based on current safety guidelines. (FF1A Lecture Objective 15.) A cadet will identify issues with deaths caused be Wildland Watchouts and submit a written response on which Watchout was violated and how could have the situation have been prevented.
2. Following a lecture on ventilating a single story residential structure, students will be given multiple fire scenarios and must determine the proper type of ventilation for each. Grading will be pass/fail according to industry standards.
3. Following the lecture on fire fighter fatalities, cadets will work in groups and prepare a power-point presentation outlining the circumstances surrounding an assigned fire fighter fatality and present to class. Grading will be based on a rubric provided to the students.
4. Working in groups using provided scenarios, solve problems related to fire suppression techniques in wild-land incidents and present conclusions to the class.

Reading Assignments

1. Cadets are assigned multiple reading topics specific to topics for the week.
2. The cadets will read the assigned material on fire technology education and the fire fighter selection process in the text. They will then develop a personal educational plan.
3. The cadets will read the assigned material on the proper procedures and processes for a response to an unknown hazardous material spill. They will break into small groups, after which they will be provided with scenarios of hazardous materials spills. Each cadet will submit an outline containing proper response procedures.

Skills Demonstrations

1. Following a lecture and instructor demonstration, cadets will demonstrate how to properly deploy a 1-3/4" hose line for fire attack. Grading is pass/fail according to industry standards.
2. Following a lecture on ladder placement for rescuing a victim from a 2nd story window, cadets will demonstrate proper placement of ladder and perform rescue. (Laboratory FF1A Lab Objective 50)
3. Attack a Passenger Vehicle Fire: Attack a passenger vehicle fire (or vehicle fire prop) ensuring hazards are avoided, leaking flammable liquids are identified and controlled, protection from flash fires is maintained, all vehicle compartments are over-hauled, and the fire is extinguished.(FF1A Skill Sheet 3-7)
4. Rescue a Fire Fighter: Conduct a primary search inside of a structure as part of a team of at least one other fire fighter. (FF1A Skills Sheet 3-9b)
5. Perform Vertical Ventilation on a Structure: Perform vertical ventilation on a structure as part of a team.(FF1A Skills Sheet 3-12)
6. Recognize, Identify, and Isolate Hazardous Materials/WMD: Identify hazardous materials and verbalize the potential hazards, appropriate personal protective equipment, isolation distances, and appropriate emergency response actions for the identified hazard and scenario.(FF1C Skills Sheet 5-2a)
7. Evaluate and Report Progress for a Hazardous Materials/Weapons of Mass Destruction, WMD, Incident: Evaluate and report the progress of the assigned tasks for a hazardous materials/weapons of mass destruction, WMD, incident.(FF1C Skills Sheet 6-6)
8. Coordinate an Interior Fire Attack Line: Coordinate an interior attack line for a team's accomplishment of an assignment in a structure fire so that crew integrity is established; attack techniques are selected for the given level of the fire (e.g., attic, grade level, upper levels, or basement); attack techniques are communicated to the attack teams; constant team coordination is maintained; fire growth and development is continuously evaluated; search, rescue, and ventilation requirements are communicated or managed; hazards are reported to the attack teams; and incident command is apprised of changing conditions. (FF2A Skills Sheet 3-3)
9. Prepare a Preincident Survey: Prepare a preincident survey so that all required occupancy information is recorded, items of concern are noted, and accurate sketches or diagrams are prepared.(FF2A Skills Sheet 5-3)

Problem-Solving and Other Assignments (if applicable)

1. Documented community service related to career pathway education, such as serve as the primary speaker for a k-12 career event, and volunteer work related to public safety education.
2. Perform physical fitness (running as group and circuit training rotations) daily for 45 minutes.
3. Cadets will be given a multiple choice test on vertical ventilation. The test will be evaluated using a standard grading system. Example Question: Venting a fire on the roof by cutting a hole through the covering to allow heat and smoke to escape is an example of: A. Horizontal Ventilation, B. Vertical Ventilation, C. Force Air Ventilation, D. None of the above.
4. Cadets are expected to submit homework from workbook assignments prior to the given week of classroom or drill instruction.

Outside Assignments

Representative Outside Assignments

1. In a report define and provide an example of "stratification" as it applies to structural firefighting. Reports will be evaluated using a rubric developed by the instructor and shared with cadets.
2. Documented community service related to career pathway education, such as serve as the primary speaker for a k-12 career event, and volunteer work related to public safety education.
3. Perform physical fitness (running as group and circuit training rotations) daily for 45 minutes.
4. Cadets are assigned multiple reading topics specific to the classroom or drill topics for the week.
5. The cadets will read the assigned material on fire technology education and the fire fighter selection process in the text. They will then develop a personal educational plan.
6. The cadets will read provided material on the proper procedures and processes for a response to an unknown hazardous material spill. They will break in to small groups, after which they will be provided with scenarios of hazardous materials spills. The groups will outline proper response procedures and present their plans to the class.
7. Essay examinations related to lecture topics. For Example: cadets will describe how fire affects the four basic building materials in use today. Essay will be evaluated based upon accuracy and development of description. Rubric Grading.
8. Cadets will read and review the 93 Fire Fighter I & II CA State Fire Training psychometric skills sheets that they will be tested on during the Certification Examinations.

9. Cadets will select a fire department, research the minimum qualifications, apparatus staffing, training focus, public relations, demographics, and recent incidents.
10. Cadets will present information to the class in the form of a presentation.

District General Education

A. Natural Sciences

B. Social and Behavioral Sciences

C. Humanities

D. Language and Rationality

E. Health and Physical Education/Kinesiology

F. Ethnic Studies/Gender Studies

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

Area F: Ethnic Studies

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

IGETC

Area 1: English Communication

Area 2A: Mathematical Concepts & Quantitative Reasoning

Area 3: Arts and Humanities

Area 4: Social and Behavioral Sciences

Area 5: Physical and Biological Sciences

Area 6: Languages Other than English (LOTE)

Textbooks and Lab Manuals

Resource Type
Textbook

Description
National Wildland Coordinating Group (2008). *L-180 Human Factor in the Wildland Fire Service Student Workbook*. NWCG.

Resource Type
Textbook

Description
California State Fire Training (2010). *Firefighter Safety and Survival*. California State Fire Training.

Resource Type
Textbook

Description
National Wildland Coordinating Group (2021). *Incident Response Pocket Guide*. National Wildland Coordinating Group.

Resource Type
Textbook

Description
FIRESCOPE California (2017). *Field Operations Guide - FOG*. Governor's Office of Emergency Services.

Resource Type
Textbook

Description
Teie, William (2018). *Required: Firefighter's Handbook on Wildland Firefighting,* (4th).IFSTA.

Resource Type
Textbook

Description
National Wildland Coordinating Group (2019). *I-200 Basic ICS Student Workbook*. NWCG.

Resource Type
Textbook

Description
National Wildland Coordinating Group (2020). *S-130 Firefighter Training Student Workbook*. NWCG.

Resource Type
Textbook

Description
Emergency Response Guidebook (2020). *Emergency Response Guidebook, First Responders*. -.

Resource Type
Textbook

Description
National Wildland Coordinating Group (2020). *Introduction to Wildland Fire Behavior*. National Wildland Coordinating Group.

Resource Type
Textbook

Description
IFSTA (2018). *Essentials of Fire Fighting and Fire Department Operations 7th Edition*. Oklahoma State University. ISBN: 978-87939-657-2

Resource Type
Manual

Description
National Fire Protection Association (2020-01-01). *NFPA 1051 Standard for Wildland Firefighters Professional Qualifications*. NFPA.

Resource Type
Manual

Description
National Fire Protection Association (2018-01-01). *NFPA 472 Standard for Competence of Responders to Hazardous Materials/WMD*. NFPA.

Resource Type
Manual

Description
National Fire Protection Association (2019-01-01). *NFPA 1001 Standard for Firefighter Professional Qualifications*. NFPA.

Resource Type
Other Instructional Materials

Description
State Fire Training Firefighter I/II 2019 Skill Sheets.

Resource Type
Other Instructional Materials

Description
Training videos,Post Incident Analysis,Green Sheets - Case Studies,Incident Action Plans (IAP).

Distance Education Addendum

Definitions

Distance Education Modalities
Hybrid (1%–50% online)
Hybrid (51%–99% online)
100% online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.
Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.
Yes

Regular Effective/Substantive Contact

Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Students will post a picture of a single family dwelling. Classmates are to analyze a posted photo and type in an "On-scene Report" meeting Standard Operating Guidelines.

Synchronous Dialog (e.g., online chat)	Once a cadet sees an On-scene Report written for the posted picture, the cadet is to comment on the report.

Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Students will post a picture of a single family dwelling. Classmates are to analyze a posted photo and type in an "Onscene Report" meeting Standard Operating Guidelines.
Synchronous Dialog (e.g., online chat)	Once a cadet sees an On-scene Report written for the posted picture, the cadet is to comment on the report.

100% online Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Students will post a picture of a single family dwelling. Classmates are to analyze a posted photo and type in an "On-scene Report" meeting Standard Operating Guidelines.
Other DE (e.g., recorded lectures)	Students will watch online lecture video thru Canvas.
Other DE (e.g., recorded lectures)	Students will meet online with Instructor via Zoom.

Examinations

Hybrid (1%–50% online) Modality
On campus
Online

Hybrid (51%–99% online) Modality
On campus
Online

Primary Minimum Qualification
FIRE TECHNOLOGY

Additional local certifications required
Fire Technology, CA State Fire Training Registered Instructor

Review and Approval Dates

Department Chair
09/27/2022

Dean
09/29/2022

Technical Review
10/12/2022

Curriculum Committee
10/12/2022

Curriculum Committee
11/23/2022

Control Number
CCC000625789

DOE/accreditation approval date
MM/DD/YYYY