

VOLUNTEER FIRE FIGHTER

Approved and Adopted by the
Office of State Fire Marshal



Recommended for adoption by the Statewide
Training and Education Advisory Committee
and the
State Board of Fire Services



INSTRUCTOR GUIDE

April 2010



VOLUNTEER FIRE FIGHTER

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Mission Statement

The mission of State Fire Training is to enable the California fire service to safely protect life and property through education, training, and certification.

California Fire Service Training and Education System

The California Fire Service Training and Education System (CFSTES) was established to provide a single statewide focus for fire service training in California. CFSTES is a composite of all the elements that contribute to the development, delivery, and administration of training for the California Fire Service. The authority for the central coordination of this effort is vested in the Training Division of the California State Fire Marshal's Office with oversight provided by the State Board of Fire Services.

The role of CFSTES is one of facilitating, coordinating, and assisting in the development and implementation of standards and certification for the California fire service. CFSTES manages the California Fire Academy System by providing standardized curriculum and tests; accredited courses leading to certification; approved standardized training programs for local and regional delivery; administering the certification system; and publishing Career Development Guides, Instructors Guides, Student Manuals, Student Supplements, and other related support materials.

This system is as successful and effective as the people involved in it are. It is a fire service system developed by the fire service, for the fire service... and we believe it is the best one in the country.

Acknowledgments

State Fire Training coordinated the development of the material contained in this guide. Before its publication, the Statewide Training and Education Advisory Committee (STEAC) and the State Board of Fire Services (SBFS) recommended this guide for adoption by the State Fire Marshal (SFM). This guide is appropriate for fire service personnel and for personnel in related occupations that are pursuing State Fire Training certification.

Del Walters Director of CAL FIRE	
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Mike Richwine Chief, State Fire Training	Ronny Coleman Chair, STEAC

Special acknowledgement and thanks are extended to the following members of State Fire Training for their diligent efforts and contributions that made the final publication of this document possible.

Rodney Slaughter Deputy State Fire Marshal III	Ken Vollenweider Deputy State Fire Marshal III
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The material contained in this document was compiled and organized through the cooperative effort of numerous professionals within, and associated with, the California fire service.

We gratefully acknowledge the following individuals who served as principal developers for this document.

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Name CSFA Board Member	Name CSFA Board Member
Name Department	Name Department
Name Department	Name Department

"We gratefully acknowledge the hard work and accomplishments of those before us who built the solid foundation on which this program continues to grow."



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Preface

In June of 2008, realizing that the completion of all of the tasks identified on the Fire Fighter-I Training Record might be beyond the financial and training capabilities of volunteer fire departments, the Santa Rosa Junior College and the Sonoma County Department of Fire and Emergency Services endeavored to create a Volunteer Fire Fighter Program to address the specific training needs of volunteer fire fighters in Sonoma County. In the process, the committee discovered that the need for standardized, performance-based training specifically tailored to the volunteer firefighter was not only lacking in the local area, but was lacking statewide. Moreover, it became apparent that the need had existed as long ago as 1976.

In March 1976, following the publication of the *Fire Fighter -I Career Development Guide*, some volunteer fire chiefs expressed concern that the completion of all of the tasks might be beyond the financial and training capabilities of many volunteer fire departments. As a result of this concern, a State Board of Fire Services ad hoc committee met to consider the feasibility of establishing a minimum standards program designed specifically for Volunteer Fire Fighters. The new program would be designed to be compatible with the Fire Fighter-I certification system so that a certified Volunteer Fire Fighter could continue training and eventually become a Fire Fighter-I. Unfortunately, except for a Volunteer Fire Fighter Training Record, and Volunteer fire Fighter to Fire Fighter-I Training Record, the program never fully materialized.

With that said, currently, a member of a volunteer fire department may simply complete the California State fire Marshal (CSFM) Volunteer Fire Fighter Training Record to be certified as a Volunteer Fire Fighter in California. The document was last updated in 1977 and lacks the reference materials and supporting documentation necessary for proper completion. Furthermore, the document does not sufficiently address the current Volunteer Fire Fighter training needs and standards established by the *National Fire Protection Association- Standard for Fire Fighter Professional Qualifications (NFPA-1001)*.

So, regardless of the ability of a member of a volunteer fire department to be certified as a “Volunteer Fire Fighter” by the California State Fire Marshal, many volunteer fire departments will attempt to complete the tasks listed on the Fire Fighter-I Training Record rather than those identified on the Volunteer Fire Fighter Training Record, believing that this is the standard that will qualify them as a “Fire Fighter-I”.

This Instructor Guide and associated Training Record were created to address the training requirements and challenges faced by the volunteer fire fighter. It is hoped that this guide will provide a member of a volunteer fire department with the information necessary to successfully complete a Volunteer Fire Fighter training program based on the professional standards established by NFPA-1001 for certification as a Fire Fighter-I.

Because the certification requirements for Volunteer Fire Fighter also require the completion of an approved course in Cardio-Pulmonary Resuscitation (CPR) and first-aid, those requirements are included as part of the Volunteer Fire Fighter Training Record.



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The tasks in this guide are considered to be minimum performance standards for a volunteer fire fighter as set by California State Fire Training. However, nothing in this guide shall restrict a local agency from requiring additional or more restrictive requirements for their individual department.

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Forward

This Instructor Guide is based upon the standards contained in NFPA -1001. Each task and its learning content are described. The task is assigned an appropriate level of proficiency. A student behavioral objective is included, with a measurable minimum performance standard linked to an authoritative resource. In addition, a comprehensive list of reference resources and visual aids is provided.

An Instructor Guide has several valuable uses:

- It provides the foundation for the certification program adopted by the State Board of Fire Services. Any certification program must be based upon job-related knowledge and measurable objectives.
- It provides measurable minimum performance standards. The validity and reliability of fire service examinations can be more easily defended when such measurable standards are utilized.
- It lists the various State of California training resources - manuals, fire academy programs, community college courses, and the short courses in the California Fire Service Training and Education Program curriculum.

Finally, an individual within the fire service needs to know what must be studied in order to master the job. A Fire Fighter should be confident that any eventual testing would be based upon the authoritative resources being studied. It is this fostering of individual confidence and initiative which may become the most important accomplishment of the Instructor Guide.

In addition to the tasks required to meet NFPA 1001 Fire Fighter-I standards, a successful candidate must pass an approved First Aid course, and an approved course in "Cardio-Pulmonary Resuscitation." The State Board of Fire Services must approve these courses, or their equivalent.

A Volunteer Fire Fighter to Fire Fighter-I Supplemental Guide will be developed for those certified Volunteer Fire Fighters who wish to complete the training for Firefighter I. It will contain the remaining performance standards necessary to complete the tasks contained in the FF-I program.



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Course Structure

The revision and suggested standardization of the Volunteer Fire Fighter curriculum was a massive undertaking. It required the commitment of numerous individuals and their departments throughout California as well as the input of fire service professionals and practitioners. The Volunteer Fire Fighter curriculum was updated and developed to provide volunteer fire fighters with the base level of knowledge necessary to perform successfully. All involved have freely shared their expertise to create an updated, standardized curriculum that will benefit not only the fire fighter, but his or her department as well.

Key Definitions

Certification

The term "certification" is used to recognize an individual for having met approved professional standards by meeting certification prerequisites, experience requirements, completing a specific accredited course of study, and passing appropriate certification examinations.

Fire Chief

Individual recognized as a Fire Chief by the California Professional Firefighter's On-Line California Fire Department Directory.

Authorized Representative

An "Authorized Representative" is someone who has a current original letter written and signed by the Fire Chief on department letterhead identifying them as an Authorized Representative on file with State Fire Training

Fire Fighter Instructor

Individual meeting the qualifications for Fire Fighter Instructor established by State Fire Training qualified to teach the Fire Fighter I, Fire Fighter II, or Volunteer Fire Fighter programs. Note Units U, V, W, and X require specific qualifications. The Fire Fighter Instructor need not be registered with State Fire Training.

Skills Evaluator

A Skills Evaluator is an individual who evaluates student skill demonstrations or exams. A Skills Evaluator has rank and experience similar to the Primary Instructor, has attended and passed Fire Instructor 1A and 1B and works under supervision of the Primary Instructor. The Skills Evaluator need not be registered with State Fire Training.

Instructor Requirements

Fire service personnel may qualify to teach the Volunteer Fire Fighter, Fire Fighter-I and II programs by meeting the criteria listed below. Additional courses not included in the Fire Fighter I and II instructor guides, (Units U, V, W, and X) but required for certification, may have additional instructor requirements. Refer to the State Fire Training Procedures Manual.



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1. To qualify as a Fire Fighter Instructor, the following criteria must be met:
 - a) Instructor Training (any one of the following five options)
 - 1) Completed Fire Instructor 1A and 1B
 - 2) Have a valid Community College teaching credential
 - 3) Completed the UC/CSU 60-hour Techniques of Teaching course
 - 4) Completed the NFA's Fire Service Instructional Methodology course
 - 5) Completed four semester units of upper division credit in educational materials, methods, and curriculum development
 - b) Occupational Experience
 - 1) Have a minimum of 2 years suppression experience.
2. Registration Process
 - a) Fire Fighter Instructors need not be registered with State Fire Training
 - b) Each department's Fire Chief has the responsibility to ensure the individuals teaching the Fire Fighter course(s) meets the criteria listed above.

Instructor Responsibilities

1. Ensuring all objectives of the course curriculum are met.
2. Teaching 100% of the course. Due to the length of Fire Fighter training, more than one qualified instructor may be utilized.
3. Ensuring all administrative requirements are completed in accordance with printed guidelines.
4. Proctoring any performance and/or written test when utilized.

Maintenance

1. Maintain subject area involvement either by teaching or operational assignment.
2. Agree to comply with all published State Fire Training policies and procedures of the California State Fire Marshal's Office.

Other Responsibilities:

It is the responsibility of the local agency to ensure the Student has the opportunity to acquire the knowledge/skills necessary to perform as a Volunteer Fire Fighter. This includes completion of training



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courses and on-the-job training assignments. It is important to ensure that the Student is fully prepared to perform the tasks of the position prior to undertaking a position performance assignment.

It is the responsibility of the local Fire Chief to ensure that the individuals assigned as Fire Fighter Instructors and Skills Evaluators have the knowledge, skills and abilities to instruct Students in the related task.

It is incumbent upon each individual to ensure his or her responsibilities are met.

Documentation of training, experience, and the qualification process is a responsibility shared by the Student and the Fire Fighter Instructor. Maintenance of documentation including: training records, Student qualifications, Student experience, etc is the responsibility of the local fire chief.

Instructions for Completing the Volunteer Fire Fighter Fire Training Record:

Accurate completion of the Volunteer Fire Fighter Training Record is important to the certification process. This information provides a brief description of how the Volunteer Fire Fighter Training Record is to be used and the responsibilities of those involved. This record must be kept on file with the student's department and should not be submitted to SFT.

The Training Record includes the following sections:

- The left column enumerating the tasks.
- The Topic column listing the tasks that must be performed.
- A column labeled TIME which contains the *estimated minimum* time it will take to complete a module or task, including the testing process.
- The right-hand column provides space for the Fire Fighter Instructor or Skills Evaluator to indicate when the task is successfully completed.

Once a task has been completed, a Skills Evaluator or Fire Fighter Instructor shall certify that the task has been completed by initialing next to the specific task on the Training Record. A task shall only be initialed by a Skills Evaluator or Fire Fighter Instructor who has witnessed the students' successful completion of the task – one student may not “sign-off” on another student's Training Record. Each task should be initialed and dated by the Fire Fighter Instructor or Skills Evaluator. All tasks must be completed, initialed and dated before the student can be recommended for certification.

Application to State Fire Training for Volunteer Fire Fighter Certification



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Volunteer Fire Fighter certification identifies the minimum tasks necessary to assure safety on the fire ground. It is a level of certification that recognizes the contributions and efforts of those who volunteer their time and energy to provide fire protection for their community.

In addition to the training requirement, to be certified as a Volunteer Fire Fighter the Trainee must have a minimum of six (6) months volunteer or part-time, paid experience in a California fire department as a fire fighter performing suppression duties

After training is concluded and the experience requirement met, a complete application package that includes the following must be submitted to State Fire Training:

- Completed Volunteer Firefighter Application for Certification Form (The Fire Chef or his/her designated representative must sign this application.)
- Payment of certification fee to State Fire Training

After this information is submitted to, and approved by State Fire Training, the applicant will receive their certificate as a Volunteer Fire Fighter within six to eight weeks. It is recommended that a copy of the application package be maintained by the student. State Fire Training encourages any student who has not received their certificate from State Fire Training within eight weeks, to contact the appropriate State Fire Training staff member.



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Introduction to the Manual

This Volunteer Firefighter Instructor Guide is based on the National Fire Protection Association standards for Firefighter-I (NFPA-1001), as well as standards required by the State of California. It is designed primarily for the evaluation of individual performance or as a checklist for re-certification, but it may also be used as a basis for on-the-job training. Additionally, this Instructor Guide may be used to help agencies meet the California Occupational Safety and Health Administration's General Industry Safety Orders for volunteer firefighters.

Students shall, through a qualified instructor, complete the training as specified in the Volunteer Fire Fighter Training Record using the lesson plans from the Fire Fighter I Instructor Guide, or other approved materials. Students are evaluated during this process by qualified instructors, and the student's performance is documented in the Volunteer Fire Fighter Training Record. Successful performance of all tasks, as observed and recorded by an evaluator, will result in a certification that the student has, met the performance standards specified. Evaluation and confirmation of the student's performance while completing tasks may occur on one or more training assignments and may involve more than one evaluator during any training opportunity.

A Student must not be assigned to an incident until he/she is qualified as a Trainee by the Fire Chief of the local agency and have at least six months experience performing suppression duties.

This Instructor Guide lists the objectives and tasks required for successful performance as a Volunteer Fire Fighter. Students must be observed completing all tasks and show knowledge and competency in their performance during the completion of the Volunteer Fire Fighter Training Record.

The tasks are organized in approximate instructional order because certain tasks must be taught before others. As an example, training in the use of protective clothing and breathing apparatus must precede training in horizontal ventilation.

For each topic identified in the course outline, a lesson plan consistent with this Instructor Guide that contains: a comparable time frame, level of instruction, behavioral objective, materials needed, references, preparation statement, and lesson content may be used to deliver the instruction. The California State Fire Training – Fire Fighter-I Lesson Plans are an example of lesson plans that are acceptable for use in the Volunteer Fire Fighter program.

The following is the minimum information that must be contained in a lesson plan:

TIME FRAME: The estimated duration required for in-class presentation, evaluation and testing.

- **LEVEL OF INSTRUCTION:** Identifies the instructional level that the material was designed to fulfill. Obviously, you have the latitude to increase the level based on available time, local conditions, and the students' appreciative base.



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- **BEHAVIORAL OBJECTIVE:** The behavioral objective is a statement of the student's performance desired at the end of instruction. The behavioral objective must be consistent with the behavioral objectives of this program. You must ensure that enough information is given in the presentation and/or activities to enable the student to perform according to the goal.
- **MATERIALS NEEDED:** This should be a complete list of everything you will need to present the lesson, including visual aids, tests, and so on.
- **REFERENCES:** These are the specific references the curriculum development team used when developing the lesson plan. In addition, references may be listed as additional study aids for instructors to enhance the lesson -- books, manuals, bulletins, scripts, visual aid utilization plans and the like.
- **PREPARATION:** The motivational statements in this section connect the student with the lesson plan topic through examples or illustrations relating to their occupation, injury, and even mortality. You may modify this section to better fit your students' environment.
- **LESSON CONTENT:** Includes information used in the four-step method of instruction.

TECHNICAL LESSON PLANS

Presentation

Everything you say or display
Content
Notes

Application

Everything the student participates in
Questions
Classroom Exercises
Audiovisual Cues

MANIPULATIVE LESSON PLANS

Operations

Actions to be performed

Key Points

The "how" or tricks of the trade
Safety practices



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Course Outline

Course Objectives: To provide the student with...

- a) The knowledge and skills necessary to safely perform the tasks required of a volunteer fire fighter, including fire behavior, extinguishment theory, water systems, fire protection systems, fire prevention, investigation, and essential fireground operations.
- b) The knowledge and skills to proficiently use, inspect, test, and maintain the tools, equipment, and accessories necessary to perform the job of volunteer fire fighter, including but not limited to hand, power, and hydraulic tools, power saws, forcible entry tools, air chisels, lighting equipment, fire service jacks, and flares or fusees,
- c) The common causes of injury and death associated with fire fighting and ways to improve fire fighter safety.
- d) The knowledge and skills to safely use, inspect, and maintain self-contained breathing apparatus.
- e) The knowledge and skills necessary to inspect and effectively operate fire extinguishers.
- f) Information on the different types of fire service rope, their usage, construction, inspection, proper care, storage, and record keeping requirements.
- g) Information, methods, and techniques for the use, inspection, care, and maintenance of hose, nozzles, and appliances.
- h) Information, methods, and techniques for the use, inspection, care, maintenance, and testing of ground ladders.
- i) The knowledge and skills necessary to safely perform search and rescue operations in varying conditions.
- j) The knowledge and skills necessary to effectively perform natural, mechanical, and hydraulic ventilation.
- k) The basic issues of fire control, including strategy and tactics.
- l) The knowledge and skills necessary to effectively perform salvage and overhaul.
- m) The knowledge and skills to safely perform vehicle extrication
- n) The knowledge needed to understand the characteristics of wildland fire behavior, fire weather, and the unique aspects of wildland fire fighting, including a variety of methods and techniques for containment and extinguishment.
- o) The knowledge and skills necessary to become proficient with the life saving skills required to function as an EMS first-aid and CPR provider
- p) Training on confined space rescue to the awareness level.
- q) Basic training on the Incident Command System.
- r) Training on hazardous materials first responder to the operational level.



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Course Content 155:75

UNIT A: FIRE SERVICE ORGANIZATION AND RESPONSIBILITY (3:00)

1. Introduction to the Volunteer Fire Fighter Program	0:40
2. Course and Lesson Overview	0:35
3. Introduction to the Fire Service	0:40
4. The Incident Command System (ICS / SEMS)	0:20
5. Relationship Of Fire Department With Other Local Agencies	0:15
6. Summary and Review	0:30
7. Put Text Here	0:0

UNIT B: RESERVED

1. Reserved	0:00
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UNIT C: FIRE BEHAVIOR AND EXTINGUISHMENT THEORY (3:00)

1. Introduction to Fire Behavior	0:10
2. Principals of Fire Behavior	0:40
3. The Combustion Process	0:25
4. Classifications of Fires	0:15
5. Fire Development	0:45
6. Methods to Control and Extinguish Fire	0:15
7. Summary of Fire Behavior	0:30
8. Introduction to Building Construction	0:10
9. Basic Construction Knowledge	1:00
10. Building Collapse and Construction Hazards	0:30
11. Summary of Building Construction	0:30
12. Put Text Here	0:00

UNIT D: FIRE FIGHTER SAFETY (3:00)

1. Course Introduction	0:10
2. Introduction to Firefighter Safety and Health	0:30
3. Risk Management	0:15
4. Fire Department Safety and Health Program	0:40
5. Emergency Operations	0:35
6. Incident Safety Concerns	0:20
7. Summary and Review	0:15
8. Put Text Here	0:00

UNIT E: SELF-CONTAINED BREATHING APPARATUS (6:00)

1. Course Introduction	0:15
2. Introduction to Personal Protective Clothing	0:45
3. Respiratory Hazards	0:30
4. Use and Limitations of Respiratory Protection	0:30
5. Air Purifying Respirators and SCBA	0:30
6. PASS Devices and Other Safety Considerations	0:30
7. SCBA Use and Maintenance	0:40



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8.	SCBA Safety Precautions	0:20
9.	Emergency Operations and Limited Visibility	0:30
10.	Put Text Here	0:00

UNIT F: PORTABLE FIRE EXTINGUISHERS (3:00)

1.	Course Introduction	0:10
2.	Introduction to Portable Fire Extinguishers	0:10
3.	Classification of Fires	0:15
4.	Types of Fire Extinguishers	0:30
5.	Portable Extinguisher Rating System	0:20
6.	Selecting and Using Portable Fire Extinguishers	0:30
7.	Summary and Review	0:30
8.	Put Text Here	0:00

UNIT G: ROPES, KNOTS, AND HITCHES (3:00)

1.	Course Introduction	0:10
2.	Introduction to Ropes	0:45
3.	Rope Maintenance	0:15
4.	Webbing	0:10
5.	Ropes Knots and Hardware	0:20
6.	Hoisting Safety	0:15
7.	Rescue Rope Harness	0:10
8.	Summary and Review	0:30
9.	Put Text Here	0:00

UNIT H: HOSE, NOZZLES, AND APPLIANCES (3:00)

1.	Introduction to Fire Hose	0:15
2.	Fire Hose Sizes	0:10
3.	Causes and Prevention of Fire Hose Damage	0:15
4.	General Care and Maintenance of Fire Hose	0:10
5.	Fire Hose Couplings, Tools and Appliances	0:25
6.	Hose Loads, Rolls and Finishes	0:25
7.	Supply Hose Lays	0:25
8.	Handling, Advancing and Operating Hoselines	0:25
9.	Fire Hose Summary and Review	0:30
10.	Introduction to Fire Streams	0:10
11.	Fire Stream Use	0:10
12.	Water and Fire Streams	0:30
13.	Fire Stream Sizes, Types and Nozzles	0:45
14.	Nozzle Control Valves and Inspections	0:15
15.	Summary and Review	0:30
16.	Put Text Here	0:00

UNIT I: GROUND LADDERS (3:00)



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1.	Course Introduction	0:10
2.	Introduction to Ladders	0:30
3.	Maintenance, Cleaning and Inspection.....	0:20
4.	Working With Ladders	0:90
5.	Summary and Review	0:30
UNIT J: FORCIBLE ENTRY (3:00)		
1.	Introduction to Forcible Entry	0:10
2.	Forcible Entry Tools	0:40
3.	Forcible Entry Tool Safety and Care.....	0:20
4.	Forcing Doors, Locks, Gates and Fences	0:30
5.	Forcing Windows.....	0:20
6.	Breaching Walls and Floors.....	0:30
7.	Summary and Review	0:30
UNIT K: RESCUE (3:00)		
1.	Introduction to Rescue.....	0:10
2.	Rescue / Extrication and Applicable Guidelines	0:20
3.	Building Searches	0:40
4.	Actions When Firefighter is in Distress	0:40
5.	Victim Removal	0:20
6.	Emergency Power / Lighting.....	0:25
7.	Summary and Review.....	0:25
UNIT L: VENTILATION (3:00)		
1.	Introduction to Ventilation	0:10
2.	Fireground Ventilation	0:30
3.	Vertical Ventilation	0:20
4.	Roof Conditions and Vertical Ventilation.....	0:20
5.	Other Types of Vertical Ventilation	0:10
6.	Effectiveness of Vertical Ventilation	0:10
7.	Horizontal Ventilation	0:20
8.	Forced Ventilation	0:30
9.	Summary and Review.....	0:30
UNIT M: FIRE CONTROL (3:00)		
1.	Introduction to Fire Control	0:10
2.	Suppressing Structure Fires	0:20
3.	Deploying Master Stream Devices	0:25
4.	Suppressing Class C Fires	0:35
5.	Company Level Fire Tactics	1:00
6.	Summary and Review	0:30
UNIT N: SALVAGE AND OVERHAUL (3:00)		



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1.	Introduction to Loss Control.....	0:10
2.	Philosophy of Loss Control	0:15
3.	Salvage.....	0:45
4.	Overhaul	0:30
5.	Summary and Review	0:30
UNIT O: FIRE PROTECTION WATER SYSTEMS (3:00)		
1.	Introduction to Water Systems	0:10
2.	Fire Hydrants	0:60
3.	Alternative Water Supplies.....	0:15
4.	Rural Water Supply Operations.....	0:30
5.	Summary and Review	0:30
UNIT P: FIRE PROTECTION SYSTEMS (3:00)		
1.	Introduction to Fire Protection Systems	0:10
2.	Functions of Fire Detection, Alarm and Suppression Systems	0:10
3.	Automatic Sprinkler Systems	0:45
4.	Operations at Fires in Protected Properties	0:15
5.	Summary and Review	0:30
UNIT Q: FIRE PREVENTION AND INVESTIGATION (2:00)		
1.	Introduction to Fire Prevention and Investigation.....	0:10
2.	Indicators of an Incendiary Fire.....	0:20
3.	On Scene Observations and Conduct	0:30
4.	Responsibilities After the Fire	0:30
5.	Summary and Review	0:30
UNIT R: COMMUNICATIONS (4:45)		
1.	Introduction to Communications	1:00
2.	Communications Center Personnel.....	1:00
3.	Communications Center	0:30
4.	Receiving Calls From the Public	1:00
5.	Alerting Fire Department Personnel.....	0:30
6.	Radio communications	0:30
UNIT S: VEHICLE EXTRICATION (Optional - 16:00)		
1.	Introduction to Principles of Vehicle Extrication.....	1:00
2.	Vehicle Anatomy	1:00
3.	New Vehicle Safety Systems.....	1:00
4.	Vehicle Accident Size-Up	1:00
5.	Principles of victim Disentanglement.....	1:00
6.	Characteristics and functions of rescue tools	1:00
7.	How to stabilize a vehicle.....	1:00
8.	How to Remove a Windshield.....	1:00
9.	How to open a vehicle roof.....	2:00
10.	How to open a vehicle door.....	2:00



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11.	How to displace a steering wheel/column	2:00
12.	How to displace vehicle seats	2:00

UNIT T: WILDLAND FIRE FIGHTING (27:45) (Equivalents may be accepted)

1.	Wildland fire behavior	2:00
2.	Fire weather	3:00
3.	Wildland fire fighter preparedness and personal protective equipment	1:00
4.	Wildland fire fighting safety	2:00
5.	Lookouts, communications, escape routes, and safety zones (LCES)	1:00
6.	Safety considerations when working around dozers	0:15
7.	Safety considerations when working near aircraft	0:30
8.	Characteristics and functions of fire shelters	1:00
9.	How to deploy a fire shelter, standing method	0:30
10.	How to deploy a fire shelter, lying-down method	0:30
11.	Parts of a wildland fire	0:15
12.	Wildland fire strategy	0:30
13.	Handline construction	1:00
14.	Characteristics and functions of wildland hand tools	1:00
15.	Inspection and maintenance of wildland hand tools	0:30
16.	Characteristics and functions of back pumps	0:30
17.	Characteristics and functions of fusees as a firing tool	0:15
18.	Characteristics and functions of a drip torch	0:30
19.	How to use a drip torch	0:30
20.	Characteristics and functions of wildland hose lays	1:00
21.	Using water on wildland fires	0:30
22.	How to construct progressive hose lays	0:30
23.	Characteristics and functions of mobile attack operations	1:00
24.	How to perform a mobile attack	0:30
25.	Characteristics and functions of mop-up and patrol	0:45
26.	Methods for scouting and communicating spot fires	0:30
27.	Using a wildland map	1:00
28.	Using a wildland compass	1:00
29.	Introduction to incident base	0:30
30.	Working with wildland fire resources	0:30
31.	Introduction to I-Zone	0:15
32.	I-Zone safety considerations	1:00
33.	I-Zone structure protection procedures	2:00

UNIT U: EMERGENCY CARE (21:00)

Complete, at a minimum, a First Aid and CPR course	21:00
--	-------

UNIT V: INCIDENT COMMAND SYSTEM (6:00)

1. Complete I-100 Introduction to ICS	3:00
---	------



VOLUNTEER FIRE FIGHTER

Instructor Guide



Title of Section

2. Complete NIMS IS-700(a)	3:00
----------------------------------	------

UNIT W: CONFINED SPACE RESCUE (3:00)

1. Hazards associated with confined space emergencies.....	1:00
2. Emergency response system for confined space emergencies	1:00
3. Confined space emergencies site control an scene management.....	1:00

UNIT X: HAZARDOUS MATERIALS (16:00)

Hazardous Materials First Responder Operations	16:00
--	-------

Texts and References

- Essentials of Fire Fighting, IFSTA, Fifth Edition © 2008
- Firefighter's Handbook, Delmar, 3rd Edition © 2009
- Forcible Entry, IFSTA, Seventh Edition
- Truck Company Operations, John Mittendorf, 1998 Edition

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VOLUNTEER FIRE FIGHTER

Instructor Guide

Title of Section



Calendar of Events (Heading 1)

DAY	TOPIC	TITLE	TIME	ACTIVITY	EVALUATION
Day 1					
	Day 1 Total			8:00	
Day 2			1:00		Test 1
	Day 2 Total			8:00	
Day 3			1:00		Test 2
	Day 3 Total			8:00	
Day 4			1:00		Test 3
	Day 4 Total			8:00	
Day 5					
			1:00		Final Exam
	Day 5 Total			8:00	
Course Total			40:00		

Minimum course **hours = ##**. If the optional skills and evolutions are scheduled to be taught, adequate time and materials must be added.



VOLUNTEER FIRE FIGHTER

Instructor Guide

Title of Section



Topic #A-1: Introduction to the Volunteer Fire Fighter Program

Student information for this topic can be found in the local agency standard operating procedures and related documents.

TOPIC:	INTRODUCTION TO THE VOLUNTEER FIRE FIGHTER PROGRAM
TIME FRAME:	0:10
LEVEL OF INSTRUCTION:	Level II
AUTHORITY:	LOCAL RESOURCES
BEHAVIORAL OBJECTIVE:	
Condition:	A verbal test
Behavior:	The student will know his or her responsibilities while attending this course
Standard:	With a minimum 80% accuracy according to the information presented.
MATERIALS NEEDED:	<ul style="list-style-type: none">• Writing board with markers/erasers• Appropriate audiovisual equipment• Appropriate audiovisual materials
REFERENCES:	<ul style="list-style-type: none">• Local resources
PREPARATION:	The purpose of this section is to welcome the students to the course and to review emergency and facility information. If possible, a representative from the host department should welcome the students and provide any pertinent information about the community, i.e. eating places, entertainment, etc.



VOLUNTEER FIRE FIGHTER

Instructor Guide

Title of Section



Topic #A-2: Course Lesson and Overview

Student information for this topic can be found in the local agency standard operating procedures and related documents and State Fire Training Procedures Manual.

TOPIC:	COURSE AND LESSON OVERVIEW
TIME FRAME:	0:35
LEVEL OF INSTRUCTION:	Level II
AUTHORITY:	LOCAL RESOURCES
BEHAVIORAL OBJECTIVE:	
Condition:	A verbal test
Behavior:	<ul style="list-style-type: none">• The student will understand his or her responsibilities while attending this course.• The student will understand the course expectations and outcomes.
Standard:	With a minimum 80% accuracy according to the information presented.
MATERIALS NEEDED:	<ul style="list-style-type: none">• Writing board with markers/erasers• Appropriate audiovisual equipment• Appropriate audiovisual materials
REFERENCES:	<ul style="list-style-type: none">• Local resources



VOLUNTEER FIRE FIGHTER

Instructor Guide

Title of Section



PREPARATION:

The purpose of this section is to welcome the students to the course and to review emergency and facility information. If possible, a representative from the host department should welcome the students and provide any pertinent information about the community, i.e. eating places, entertainment, etc.

Welcome remarks should be no more than 10 minutes.

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VOLUNTEER FIRE FIGHTER

Instructor Guide

Title of Section



Topic #A-3: Introduction to the Fire Service

Student information for this topic can be found in IFSTA Essentials – 5th Edition, Page(s) 10-43.

TOPIC:

INTRODUCTION TO THE FIRE SERVICE

TIME FRAME:

0:40

LEVEL OF INSTRUCTION:

Level II

AUTHORITY:

NFPA® 1001, 5.1.1

BEHAVIORAL OBJECTIVE:

Condition:

A written test.

Behavior:

Upon successful completion of this lesson, the student shall be able to:

1. Describe the history and culture of the fire service. (NFPA® 1001, 5.1.1)
2. Describe the mission of the fire service. (NFPA® 1001, 5.1.1)
3. Define fire department organizational principles. (NFPA® 1001, 5.1.1)
4. Distinguish among functions of fire companies. (NFPA® 1001, 5.1.1)
5. Summarize primary knowledge and skills the firefighter must have to function effectively. (NFPA® 1001, 5.1.1)
6. Distinguish among the primary roles of fire service personnel. (NFPA® 1001, 5.1.1)
7. Distinguish among policies, procedures, and standard operating procedures (SOPs). (NFPA® 1001, 5.1.1)

Standard:

With a minimum 80% accuracy according to the information contained in the text: IFSTA **Essentials of Fire Fighting**, 5th edition, chapter 1.

MATERIALS NEEDED:

- Writing board with markers/erasers
- Appropriate audiovisual equipment
- Appropriate audiovisual materials



VOLUNTEER FIRE FIGHTER

Instructor Guide

Title of Section



REFERENCES:

- IFSTA **Essentials of Fire Fighting**, 5th edition.
- 2002 NFPA® 1001

PREPARATION:

It is important for the firefighter to understand the organization of the fire department; the role of the Fire Fighter I in the organization; the mission of fire service; the fire department's standard operating procedures and rules and regulations as they apply to the Fire Fighter I; the role of other agencies as they relate to the fire department;

Topic #A-4: Principles of the Standardized Emergency Management System (SEMS)

Student information for this topic can (also) be found in California Emergency Services Act, Chapter 7 of Division 1 of Title 2, Government Code Article 9.5



VOLUNTEER FIRE FIGHTER

Instructor Guide

Title of Section



TOPIC:	PRINCIPLES OF THE STANDARDIZED EMERGENCY MANAGEMENT SYSTEM (SEMS)
TIME FRAME:	0:20
LEVEL OF INSTRUCTION:	Level II
AUTHORITY:	SBFS
BEHAVIORAL OBJECTIVE:	
Condition:	A written test
Behavior:	The student will confirm a knowledge of the basic concepts of the Standardized Emergency Management System (SEMS) by completing the written test
Standard:	With a minimum 80% accuracy according to the information contained in the <u>California Emergency Services Act</u> , Chapter 7 of Division 1 of Title 2, Government Code Article 9.5 and NFPA ® 1001.
MATERIALS NEEDED:	<ul style="list-style-type: none">• Writing board with markers/erasers• Appropriate audiovisual equipment• Appropriate audiovisual materials
REFERENCES:	<ul style="list-style-type: none">• <u>California Emergency Services Act</u>, Chapter 7 of Division 1 of Title 2, Government Code Article 9.5
PREPARATION:	As a direct result of the 1991 Oakland conflagration, legislation was enacted to ensure a coordinated and standardized response to local and statewide emergencies. Fire fighters are required by this law to have an understanding of the principles of SEMS.

Topic #A-5: Relationship of Fire Department with Other Local Agencies

Student information for this topic can be found in IFSTA Essentials – 5th Edition, Page(s) 10-43.



VOLUNTEER FIRE FIGHTER

Instructor Guide

Title of Section



TOPIC:	RELATIONSHIP OF FIRE DEPARTMENT WITH OTHER LOCAL AGENCIES
TIME FRAME:	0:15
LEVEL OF INSTRUCTION:	Level II
AUTHORITY:	NFPA® 1001 3-1.1.1
BEHAVIORAL OBJECTIVE:	
Condition:	A written test
Behavior:	The student will confirm a knowledge of the relationships between the fire department and other local government agencies by completing the written test
Standard:	With a minimum 80% accuracy according to the information contained in IFSTA Essentials of Fire Fighting , 5 th edition.
MATERIALS NEEDED:	<ul style="list-style-type: none">• Writing board with markers/erasers• Appropriate audiovisual equipment• Appropriate audiovisual materials
REFERENCES:	<ul style="list-style-type: none">• <u>Fire Service Orientation and Terminology</u>, IFSTA, Third Edition
PREPARATION:	It is important to understand that no government organization can operate independent of others. The cooperative interaction between the fire department and all other departments within the system is essential. The following information will provide you with an introduction to each department interfacing with your organization.



VOLUNTEER FIRE FIGHTER

Instructor Guide

Title of Section



Topic #A-6: Unit-A Summary and Review

Student information for this topic can be found in IFSTA Essentials – 5th Edition, Page(s) 10-43, and California Emergency Services Act, Chapter 7 of Division 1 of Title 2, Government Code Article 9.5

TOPIC:	UNIT-A SUMMARY AND REVIEW
TIME FRAME:	0:30
LEVEL OF INSTRUCTION:	Level II
AUTHORITY:	NFPA® 1001
BEHAVIORAL OBJECTIVE:	
Condition:	A written test
Behavior:	The student will
Standard:	With a minimum 80% accuracy according to the information contained in IFSTA Essentials of Fire Fighting , 5 th edition.
MATERIALS NEEDED:	<ul style="list-style-type: none">• Writing board with markers/erasers• Appropriate audiovisual equipment• Appropriate audiovisual materials
REFERENCES:	<ul style="list-style-type: none">• IFSTA Essentials of Fire Fighting, 5th edition
PREPARATION:	The purpose of this section is to summarize the lesson and review key points. Answer any questions students may have about the lesson or course in general.



VOLUNTEER FIRE FIGHTER

Instructor Guide

Title of Section



Topic #?-1: Title (Heading 1)

Student information for this topic can (also) be found in Title, Publisher or Author, # Edition or Year Edition, Page(s) ###.

Heading 2

Normal.

Normal.

Normal.

Heading 3

List Outline.

- Second level.

- Third level.

- ◆ Fourth level.

Etc.

- Etc.

Heading 4

Normal.

Heading 5

1. List Number with Bullets.

- Second level.

2. List Number with Bullets.

- Second level.

- Second level.

3. Etc.



COURSE TITLE

Course Subtitle



Group or Individual Activity #-#-#: Title

Group or Individual Activity #-#-#: Title

Time Frame: #:#

Materials Needed: •

Introduction: This activity provides you the opportunity to

- Directions:***
- 1.
 - 2.
 3. Etc.
 4. You have ### minutes to complete this activity.
 5. Be prepared to discuss your answers with the class.

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Evolution #1: Title

	The students will....
<i>Time Frame:</i>	#:##
<i>Students (Minimum):</i>	One squad: # students
<i>Materials Needed:</i>	<ul style="list-style-type: none">••••
<i>Site Preparations:</i>	Description
<i>Instructor Directions:</i>	1.
<i>Student Directions:</i>	1.

Add graphic or photos when appropriate



COURSE TITLE

Course Subtitle



Appendix A: Volunteer Fire Fighter Training Record

Appendix A: Volunteer Fire Fighter Training Record

NAME:			
	TOPIC	TIME	APPROVED INSTRUCTOR INITIALS and DATE
UNIT A	FIRE SERVICE ORGANIZATION AND RESPONSIBILITY	3:00	
1	Introduction to the Volunteer Fire Fighter Program		
2	Course and Lesson Overview		
3	Introduction to the Fire Service		
4	The Incident Command System (ICS / SEMS)		
5	Relationship Of Fire Department With Other Local Agencies		
UNIT B	MISCELLANEOUS EQUIPMENT AND TOOLS	0:00	
1.	Reserved	0:00	
UNIT C	FIRE BEHAVIOR AND EXTINGUISHMENT THEORY	6:00	
1	Principals of Fire Behavior		
2	The Combustion Process		
3	Classifications of Fires		
4	Fire Development		
5	Methods to Control and Extinguish Fire		
6	Basic Construction Knowledge		
7	Building Collapse and Construction Hazards		
	Skill Sheets		
UNIT D	FIRE FIGHTER SAFETY	3:00	
1	Introduction to Firefighter Safety and Health		
2	Risk Management		
3	Fire Department Safety and Health Programs		
4	General safety precautions for all emergency situations		
5	Incident Safety Concerns		
	Skill Sheets		
UNIT E	SELF-CONTAINED BREATHING APPARATUS	6:00	
1	Introduction to Personal Protective Clothing		
2	Respiratory Hazards		
3	Use and Limitations of Respiratory Protection		
4	Air Purifying Respirators and SCBA		
5	SCBA Use and Maintenance		
6	PASS Devices and Other Safety Considerations		
7	SCBA Safety Precautions		
8	Emergency Operations and Limited Visibility		
	Skill Sheets		
UNIT F	PORTABLE FIRE EXTINGUISHERS	3:00	
1	Introduction to Portable Fire Extinguishers		
2	Classification of Fires		
3	Types of Fire Extinguishers		
4	Portable Extinguisher Rating System		
	Skill Sheets		
UNIT G	ROPES, KNOTS, AND HITCHES	3:00	
1	Introduction to Ropes		
2	Rope Maintenance		
3	Webbing		
4	Ropes Knots and Hardware		



COURSE TITLE

Course Subtitle



Appendix A: Volunteer Fire Fighter Training Record

NAME:			
	TOPIC	TIME	APPROVED INSTRUCTOR INITIALS and DATE
5	Hoisting Safety		
6	Rescue Rope Harness		
	Skill Sheets		
UNIT H	HOSE, NOZZLES, AND APPLIANCES	6:00	
1	Fire Hose Sizes		
2	Causes and Prevention of Fire Hose Damage		
3	General Care and Maintenance of Fire Hose		
4	Fire Hose Couplings, Tools and Appliances		
5	Hose Loads, Rolls and Finishes		
6	Supply Hose Lays		
7	Handling, Advancing and Operating Hoselines		
8	Fire Stream Use		
9	Water and Fire Streams		
10	Fire Stream Sizes, Types and Nozzles		
11	Nozzle Control Valves and Inspections		
	Skill Sheets		
UNIT I	GROUND LADDERS	6:00	
1	Introduction to Ladders		
2	Maintenance, Cleaning and Inspection		
3	Working With Ladders		
4	Skill Sheets		
UNIT J	FORCIBLE ENTRY	6:00	
1	Forcible Entry Tools		
2	Forcible Entry Tool Safety and Care		
3	Forcing Doors, Locks, Gates and Fences		
4	Forcing Windows		
5	Breaching Walls and Floors		
	Skill Sheets		
UNIT K	RESCUE	3:00	
1	Rescue / Extrication and Applicable Guidelines		
2	Building Searches		
3	Actions When Firefighter is in Distress		
4	Victim Removal		
5	Emergency Power / Lighting		
	Skill Sheets		
UNIT L	VENTILATION	6:00	
1	Fireground Ventilation		
2	Vertical Ventilation		
3	Roof Conditions and Vertical Ventilation		
4	Other Types of Vertical Ventilation		
5	Effectiveness of Vertical Ventilation		
6	Horizontal Ventilation		
7	Forced Ventilation		
8	Effects Of Building Systems on Fires or Ventilation		
	Skill Sheets		
UNIT M	FIRE CONTROL	3:00	
1	Suppressing Structure Fires		
2	Deploying Master Stream Devices		
3	Suppressing Class C Fires		



COURSE TITLE

Course Subtitle



Appendix A: Volunteer Fire Fighter Training Record

NAME:			
	TOPIC	TIME	APPROVED INSTRUCTOR INITIALS and DATE
4	Company Level Fire Tactics Skill Sheets		
UNIT N	SALVAGE AND OVERHAUL	3:00	
1	Philosophy of Loss Control		
2	Salvage		
3	Overhaul Skill Sheets		
UNIT O	FIRE PROTECTION WATER SYSTEMS	3:00	
1	Fire Hydrants		
2	Alternative Water Supplies		
3	Rural Water Supply Operations Skill Sheets		
UNIT P	FIRE PROTECTION SYSTEMS	1:30	
1	Functions of Fire Detection, Alarm and Suppression Systems		
2	Automatic Sprinkler Systems		
3	Operations at Fires in Protected Properties Skill Sheets		
UNIT Q	FIRE PREVENTION AND INVESTIGATION	1:30	
1	Indicators of an Incendiary Fire		
2	On Scene Observations and Conduct		
3	Responsibilities After the Fire		
4	Basic techniques for public education Skill Sheets		
UNIT R	COMMUNICATIONS	3:00	
1	Communications Center Personnel		
2	Communications Center		
3	Receiving Calls From the Public		
4	Alerting Fire Department Personnel		
5	Radio communications Skill Sheets		
	TOTAL FIREFIGHTER-I TRAINING HOURS REQUIRED	66:00	
UNIT S	VEHICLE EXTRICATION (Or equal training)	16:00	
1.	Introduction to the principles of vehicle extrication		
2.	Vehicle anatomy		
3.	New vehicle safety systems		
4.	Vehicle accident size-up		
5.	Principles of victim disentanglement		
6.	Characteristics and functions of rescue tools		
7.	How to stabilize a vehicle		
8.	How to remove a windshield		
9.	How to open a vehicle roof		
10.	How to open a vehicle door		
11.	How to displace a steering wheel/column		
12.	How to displace vehicle seats		



COURSE TITLE

Course Subtitle



Appendix A: Volunteer Fire Fighter Training Record

NAME:			
	TOPIC	TIME	APPROVED INSTRUCTOR INITIALS and DATE
UNIT T	WILDLAND FIRE FIGHTING (Or equal training i.e. NWCG S-130 or G-130 and NWCG S-190 "Introduction to Wildland Firefighting Behavior" "Basic fire fighter training")	27:45	
1.	Wildland fire behavior		
2.	Fire weather		
3.	Wildland fire fighter preparedness and personal protective equipment		
4.	Wildland fire fighting safety		
5.	Lookouts, communications, escape routes, and safety zones (LCES)		
6.	Safety considerations when working around dozers		
7.	Safety considerations when working near aircraft		
8.	Characteristics and functions of fire shelters		
9.	How to deploy a fire shelter, standing method		
10.	How to deploy a fire shelter, lying-down method		
11.	Parts of a wildland fire		
12.	Wildland fire strategy		
13.	Handline construction		
14.	Characteristics and functions of wildland hand tools		
15.	Inspection and maintenance of wildland hand tools		
16.	Characteristics and functions of back pumps		
17.	Characteristics and functions of fusees as a firing tool		
18.	Characteristics and functions of a drip torch		
19.	How to use a drip torch		
20.	Characteristics and functions of wildland hose lays		
21.	Using water on wildland fires		
22.	How to construct progressive hose lays		
23.	Characteristics and functions of mobile attack operations		
24.	How to perform a mobile attack		
25.	Characteristics and functions of mop-up and patrol		
26.	Methods for scouting and communicating spot fires		
27.	Using a wildland map		
28.	Using a wildland compass		
29.	Introduction to incident base		
30.	Working with wildland fire resources		
31.	Introduction to I-Zone		
32.	I-Zone safety considerations		
33.	I-Zone structure protection procedures		
UNIT U	EMERGENCY CARE	21:00	
	Complete, at a minimum, "TITLE-22 First-Aid and CPR course"		
UNIT V	INCIDENT COMMAND SYSTEM	6:00	
	Complete I-100 Introduction to ICS course (Online available)		
	Complete NIMS-IS 700.a (Online available)		
UNIT W	CONFINED SPACE RESCUE	3:00	
	Identify the hazards associated with confined space emergencies		



COURSE TITLE

Course Subtitle



Appendix A: Volunteer Fire Fighter Training Record

NAME:			
	TOPIC	TIME	APPROVED INSTRUCTOR INITIALS and DATE
	Describe the emergency response system for confined space emergencies, including non-entry rescue		
	Describe site control and scene management		
UNIT X	HAZARDOUS MATERIALS		
	Complete Hazardous Materials First Responder Operations course	16:00	
	TOTAL VOLUNTEER FIRE FIGHTER HOURS:	155:45	

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COURSE TITLE

Course Subtitle

Appendix B: NFPA / California State Fire Marshal Cross Reference



Appendix B: NFPA / California State Fire Marshal Cross Reference

Italicized texts in the right-hand column are those lesson plans within the Volunteer Fire Fighter program that relate to the specific NFPA requirement

<p align="center">NFPA 1001 Standard for Fire Fighter Professional Qualifications 2002 Edition Fire Fighter-I Tasks Description</p>	<p align="center">California State Fire Marshal Volunteer Fire Fighter Program Required Tasks to Meet NFPA Fire Fighter-1 Professional Qualifications</p>	
<p>Chapter 4 Entrance Requirements 4.1 General.</p>		
<p>Prior to entering training to meet the requirements of Chapters 5 and 6 of this standard, the candidate shall meet the following requirements: Minimum educational requirements established by the authority having jurisdiction Age requirements established by the authority having jurisdiction Medical requirements of NFPA 1582, Standard on Medical Requirements for Fire Fighters and Information for Fire Department Physicians</p>	<p><i>Generally the local requirements should be:</i> Must have high school diploma or equal Must be at least 18 years old Must pass medical physical (H&SC xxxx) Must receive First Responder Awareness (CCRxx) Must have First-Aid and CPR (CCRxx & H&SC xx)</p>	
<p>4.2 Fitness Requirements. Physical fitness requirements for entry-level personnel shall be developed and validated by the authority having jurisdiction.</p>	<p><i>Generally, some kind of "fitness-for-duty" should be required. The "pack-test" may be considered.</i></p>	
<p>4.3* Emergency Medical Care. Minimum emergency medical care performance capabilities for entry level personnel shall be developed and validated by the authority having jurisdiction to include infection control, CPR, bleeding control, and shock management.</p>	<p>UNIT U</p>	<p>EMERGENCY CARE</p>
	<p>1</p>	<p><i>Complete, at a minimum, Advanced First Aid and CPR course</i></p>
<p>Chapter 5 Fire Fighter I 5.1 General.</p>		
<p>5.1.1 For certification at Level I, the fire fighter candidate shall meet the general knowledge requirements in 5.1.1.1, the general skill requirements in 5.1.1.2, and the job performance requirements defined in Sections 5.2 through 5.5 of this standard and the requirements defined in Chapter 4, Competencies for the First Responder at the Awareness Level, of NFPA 472, Standard for Professional Competence of Responders to Hazardous Materials Incidents.</p>	<p>UNIT X</p>	<p>HAZARDOUS MATERIALS</p>
	<p>1</p>	<p><i>Complete an OSFM recognized Hazardous Materials First Responder Operations course</i></p>
<p>5.1.1.1 General Knowledge Requirements. The organization of the fire department; the role of the Fire Fighter I in the organization; the mission of fire service; the fire department's standard operating procedures and rules and regulations as they apply to the Fire Fighter I; the role of other agencies as they relate to the fire department; aspects of the fire department's member assistance program; the critical aspects of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, as they apply to the Fire Fighter I; knot types and usage; the difference between life safety and utility rope; reasons for placing rope out of service; the types of knots to use for given tools, ropes, or situations; hoisting</p>	<p><i>The various lesson plans are designed to meet the General Knowledge Requirements as stated in this section.</i></p>	



COURSE TITLE

Course Subtitle



Appendix B: NFPA / California State Fire Marshal Cross Reference

<p>methods for tools and equipment; and using rope to support response activities.</p>													
<p>5.1.1.2 General Skill Requirements. The ability to don personal protective clothing within one minute; doff personal protective clothing and prepare for reuse; hoist tools and equipment using ropes and the correct knot; tie a bowline, clove hitch, figure eight on a bight, half hitch, becket or sheet bend, and safety knots; and locate information in departmental documents and standard or code materials.</p>	<p><i>The various lesson plans are designed to meet the General Knowledge Requirements as stated in this section.</i></p>												
<p>5.2 Fire Department Communications. This duty involves initiating responses, receiving telephone calls, and using fire department communications equipment to correctly relay verbal or written information, according to the following job performance requirements.</p>	<table border="1"> <thead> <tr> <th data-bbox="820 714 933 766">UNIT R</th> <th data-bbox="933 714 1498 766">COMMUNICATIONS</th> </tr> </thead> <tbody> <tr> <td data-bbox="820 766 933 829">1</td> <td data-bbox="933 766 1498 829"><i>Communications Center Personnel</i></td> </tr> <tr> <td data-bbox="820 829 933 892">2</td> <td data-bbox="933 829 1498 892"><i>Communications Center</i></td> </tr> <tr> <td data-bbox="820 892 933 955">3</td> <td data-bbox="933 892 1498 955"><i>Receiving Calls From the Public</i></td> </tr> <tr> <td data-bbox="820 955 933 1018">4</td> <td data-bbox="933 955 1498 1018"><i>Alerting Fire Department Personnel</i></td> </tr> <tr> <td data-bbox="820 1018 933 1081">5</td> <td data-bbox="933 1018 1498 1081"><i>Radio communications</i></td> </tr> </tbody> </table>	UNIT R	COMMUNICATIONS	1	<i>Communications Center Personnel</i>	2	<i>Communications Center</i>	3	<i>Receiving Calls From the Public</i>	4	<i>Alerting Fire Department Personnel</i>	5	<i>Radio communications</i>
UNIT R	COMMUNICATIONS												
1	<i>Communications Center Personnel</i>												
2	<i>Communications Center</i>												
3	<i>Receiving Calls From the Public</i>												
4	<i>Alerting Fire Department Personnel</i>												
5	<i>Radio communications</i>												
<p>5.2.1* Initiate the response to a reported emergency, given the report of an emergency, fire department standard operating procedures, and communications equipment, so that all necessary information is obtained, communications equipment is operated correctly, and the information is promptly and accurately relayed to the dispatch center. Requisite Knowledge: Procedures for reporting an emergency, departmental standard operating procedures for taking and receiving alarms, radio codes or procedures, and information needs of dispatch center. Requisite Skills: The ability to operate fire department communications equipment, relay information, and record information.</p>	<table border="1"> <thead> <tr> <th data-bbox="820 1081 933 1134">UNIT R</th> <th data-bbox="933 1081 1498 1134">COMMUNICATIONS</th> </tr> </thead> <tbody> <tr> <td data-bbox="820 1134 933 1197">1</td> <td data-bbox="933 1134 1498 1197">Communications Center Personnel</td> </tr> <tr> <td data-bbox="820 1197 933 1260">2</td> <td data-bbox="933 1197 1498 1260">Communications Center</td> </tr> <tr> <td data-bbox="820 1260 933 1323">3</td> <td data-bbox="933 1260 1498 1323">Receiving Calls From the Public</td> </tr> <tr> <td data-bbox="820 1323 933 1386">4</td> <td data-bbox="933 1323 1498 1386"><i>Alerting Fire Department Personnel</i></td> </tr> <tr> <td data-bbox="820 1386 933 1480">5</td> <td data-bbox="933 1386 1498 1480">Radio communications</td> </tr> </tbody> </table>	UNIT R	COMMUNICATIONS	1	Communications Center Personnel	2	Communications Center	3	Receiving Calls From the Public	4	<i>Alerting Fire Department Personnel</i>	5	Radio communications
UNIT R	COMMUNICATIONS												
1	Communications Center Personnel												
2	Communications Center												
3	Receiving Calls From the Public												
4	<i>Alerting Fire Department Personnel</i>												
5	Radio communications												
<p>5.2.2 Receive a business or personal telephone call, given a fire department business phone, so that procedures for answering the phone are used and the caller's information is relayed. Requisite Knowledge: Fire department procedures for answering nonemergency telephone calls. Requisite Skills: The ability to operate fire station telephone and intercom equipment.</p>	<table border="1"> <thead> <tr> <th data-bbox="820 1480 933 1533">UNIT R</th> <th data-bbox="933 1480 1498 1533">COMMUNICATIONS</th> </tr> </thead> <tbody> <tr> <td data-bbox="820 1533 933 1596">1</td> <td data-bbox="933 1533 1498 1596">Communications Center Personnel</td> </tr> <tr> <td data-bbox="820 1596 933 1659">2</td> <td data-bbox="933 1596 1498 1659">Communications Center</td> </tr> <tr> <td data-bbox="820 1659 933 1722">3</td> <td data-bbox="933 1659 1498 1722"><i>Receiving Calls From the Public</i></td> </tr> <tr> <td data-bbox="820 1722 933 1785">4</td> <td data-bbox="933 1722 1498 1785">Alerting Fire Department Personnel</td> </tr> <tr> <td data-bbox="820 1785 933 1839">5</td> <td data-bbox="933 1785 1498 1839">Radio communications</td> </tr> </tbody> </table>	UNIT R	COMMUNICATIONS	1	Communications Center Personnel	2	Communications Center	3	<i>Receiving Calls From the Public</i>	4	Alerting Fire Department Personnel	5	Radio communications
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<p>5.2.3 Transmit and receive messages via the fire department radio, given a fire department radio and operating procedures, so that the information is accurate, complete, clear, and relayed within the time established by the AHJ.</p> <p>Requisite Knowledge: Departmental radio procedures and etiquette for routine traffic, emergency traffic, and emergency evacuation signals.</p> <p>Requisite Skills: The ability to operate radio equipment and discriminate between routine and emergency traffic.</p>	UNIT R	COMMUNICATIONS
	1	Communications Center Personnel
	2	Communications Center
	3	Receiving Calls From the Public
	4	Alerting Fire Department Personnel
	5	<i>Radio communications</i>
<p>5.3 Fireground Operations.</p> <p>This duty involves performing activities necessary to ensure life safety, fire control, and property conservation, according to the following job performance requirements.</p>		
<p>5.3.1* Use SCBA during emergency operations, given SCBA and other personal protective equipment, so that the SCBA is correctly donned and activated within one minute, the SCBA is correctly worn, controlled breathing techniques are used, emergency procedures are enacted if the SCBA fails, all low-air warnings are recognized, respiratory protection is not intentionally compromised, and hazardous areas are exited prior to air depletion.</p> <p>Requisite Knowledge: Conditions that require respiratory protection, uses and limitations of SCBA, components of SCBA, donning procedures, breathing techniques, indications for and emergency procedures used with SCBA, and physical requirements of the SCBA wearer.</p> <p>Requisite Skills: The ability to control breathing, replace SCBA air cylinders, use SCBA to exit through restricted passages, initiate and complete emergency procedures in the event of SCBA failure or air depletion, and complete donning procedures.</p>	UNIT E	SELF-CONTAINED BREATHING APPARATUS
	1	<i>Introduction to Personal Protective Clothing</i>
	2	<i>Respiratory Hazards</i>
	3	<i>Use and Limitations of Respiratory Protection</i>
	4	<i>Air Purifying Respirators and SCBA</i>
	5	<i>SCBA Use and Maintenance</i>
	6	<i>PASS Devices and Other Safety Considerations</i>
	7	<i>SCBA Safety Precautions</i>
8	<i>Emergency Operations and Limited Visibility</i>	
<p>5.3.2* Respond on apparatus to an emergency scene, given personal protective clothing and other necessary personal protective equipment, so that the apparatus is correctly mounted and dismounted, seat belts are used while the vehicle is in motion, and other personal protective equipment is correctly used.</p> <p>Requisite Knowledge: Mounting and dismounting procedures for riding fire apparatus; hazards and ways to avoid hazards associated with riding apparatus; prohibited practices; types of department personal protective equipment and the means for usage.</p> <p>Requisite Skills: The ability to use each piece of provided safety equipment.</p>	UNIT D	FIRE FIGHTER SAFETY
	1	Introduction to Firefighter Safety and Health
	2	Risk Management
	3	Fire Department Safety and Health Program

	5	Incident Safety Concerns
<p>5.3.3* Operate in established work areas at emergency scenes, given protective equipment, traffic and scene control devices, structure fire and roadway emergency scenes, traffic hazards and downed electrical wires, so that procedures are followed, protective equipment is worn, protected work areas are established as directed using traffic and scene control devices, and the fire fighter performs assigned tasks only in established, protected work areas.</p> <p>Requisite Knowledge: Potential hazards involved in operating on emergency scenes including vehicle traffic, utilities, and environmental conditions; proper procedures for dismounting apparatus in traffic; procedures for safe operation at emergency scenes; and the protective equipment available for members' safety on emergency scenes and work zone designations.</p> <p>Requisite Skills: The ability to use PPC, the deployment of traffic and scene control devices, dismount apparatus and operate in the protected work areas as directed.</p>	UNIT D	FIRE FIGHTER SAFETY
	1	Introduction to Firefighter Safety and Health
	2	Risk Management
	3	Fire Department Safety and Health Program
	4	Emergency Operations
	5	Incident Safety Concerns
		Skill Sheets
<p>5.3.4* Force entry into a structure, given personal protective equipment, tools, and an assignment, so that the tools are used as designed, the barrier is removed, and the opening is in a safe condition and ready for entry.</p> <p>Requisite Knowledge: Basic construction of typical doors, windows, and walls within the department's community or service area; operation of doors, windows, and locks; and the dangers associated with forcing entry through doors, windows, and walls.</p> <p>Requisite Skills: The ability to transport and operate hand and power tools and to force entry through doors, windows, and walls using assorted methods and tools.</p>	UNIT J	FORCIBLE ENTRY
	1	Forcible Entry Tools
	2	Forcible Entry Tool Safety and Care
	3	Forcing Doors, Locks, Gates and Fences
	4	Forcing Windows
	5	Breaching Walls and Floors
<p>5.3.5* Exit a hazardous area as a team, given vision-obscured conditions, so that a safe haven is found before exhausting the air supply, others are not endangered, and the team integrity is maintained.</p> <p>Requisite Knowledge: Personnel accountability systems, communication procedures, emergency evacuation methods, what constitutes a safe haven, elements that create or indicate a hazard, and emergency procedures for loss of air supply.</p> <p>Requisite Skills: The ability to operate as a team member in vision-obscured conditions, locate and follow a guideline, conserve air supply, and evaluate areas for hazards and identify a safe haven.</p>	UNIT K	RESCUE
	1	Rescue / Extrication and Applicable Guidelines
	2	Building Searches
	3	Actions When Firefighter is in Distress
	4	Victim Removal
	5	Emergency Power / Lighting
<p>5.3.6* Set up ground ladders, given single and extension ladders, an assignment, and team members if needed, so that hazards are assessed, the ladder is stable, the angle is correct for climbing, extension ladders are extended to the necessary height with the fly locked, the top is placed against a reliable structural component, and the assignment is accomplished.</p> <p>Requisite Knowledge: Parts of a ladder, hazards associated with setting up ladders, what constitutes a stable foundation for ladder placement, different angles for various tasks, safety limits to the</p>	UNIT I	GROUND LADDERS
	1	Introduction to Ladders
	2	Maintenance, Cleaning and Inspection



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<p>degree of angulation, and what constitutes a reliable structural component for top placement.</p> <p>Requisite Skills: The ability to carry ladders, raise ladders, extend ladders and lock flies, determine that a wall and roof will support the ladder, judge extension ladder height requirements, and place the ladder to avoid obvious hazards.</p>	<table border="1"> <tr> <td data-bbox="836 325 933 399">3</td> <td data-bbox="941 325 1469 399"><i>Working With Ladders</i></td> </tr> </table>	3	<i>Working With Ladders</i>								
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<p>5.3.7* Attack a passenger vehicle fire operating as a member of a team, given personal protective equipment, attack line, and hand tools, so that hazards are avoided, leaking flammable liquids are identified and controlled, protection from flash fires is maintained, all vehicle compartments are overhauled, and the fire is extinguished.</p> <p>Requisite Knowledge: Principles of fire streams as they relate to fighting automobile fires; precautions to be followed when advancing hose lines toward an automobile; observable results that a fire stream has been properly applied; identifying alternative fuels and the hazards associated with them; dangerous conditions created during an automobile fire; common types of accidents or injuries related to fighting automobile fires and how to avoid them; how to access locked passenger, trunk, and engine compartments; and methods for overhauling an automobile.</p> <p>Requisite Skills: The ability to identify automobile fuel type; assess and control fuel leaks; open, close, and adjust the flow and pattern on nozzles; apply water for maximum effectiveness while maintaining flash fire protection; advance 1½-in. (38-mm) or larger diameter attack lines; and expose hidden fires by opening all automobile compartments.</p>	<table border="1"> <tr> <td data-bbox="836 493 933 546">UNIT M</td> <td data-bbox="941 493 1469 546">FIRE CONTROL</td> </tr> <tr> <td data-bbox="836 556 933 619">1</td> <td data-bbox="941 556 1469 619"><i>Suppressing Structure Fires</i></td> </tr> <tr> <td data-bbox="836 630 933 693">2</td> <td data-bbox="941 630 1469 693"><i>Deploying Master Stream Devices</i></td> </tr> <tr> <td data-bbox="836 703 933 766">3</td> <td data-bbox="941 703 1469 766"><i>Suppressing Class C Fires</i></td> </tr> <tr> <td data-bbox="836 777 933 840">4</td> <td data-bbox="941 777 1469 840"><i>Company Level Fire Tactics</i></td> </tr> </table>	UNIT M	FIRE CONTROL	1	<i>Suppressing Structure Fires</i>	2	<i>Deploying Master Stream Devices</i>	3	<i>Suppressing Class C Fires</i>	4	<i>Company Level Fire Tactics</i>
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<p>5.3.8* Extinguish fires in exterior Class A materials, given fires in stacked or piled and small unattached structures or storage containers that can be fought from the exterior, attack lines, hand tools and master stream devices, and an assignment, so that exposures are protected, the spread of fire is stopped, collapse hazards are avoided, water application is effective, the fire is extinguished, and signs of the origin area(s) and arson are preserved.</p> <p>Requisite Knowledge: Types of attack lines and water streams appropriate for attacking stacked, piled materials and outdoor fires; dangers — such as collapse — associated with stacked and piled materials; various extinguishing agents and their effect on different material configurations; tools and methods to use in breaking up various types of materials; the difficulties related to complete extinguishment of stacked and piled materials; water application methods for exposure protection and fire extinguishment; dangers such as exposure to toxic or hazardous materials associated with storage building and container fires; obvious signs of origin and cause; and techniques for the preservation of fire cause evidence.</p> <p>Requisite Skills: The ability to recognize inherent hazards related to the material's configuration, operate handlines or master streams, break up material using hand tools and water streams, evaluate for complete extinguishment, operate hose lines and other water application devices, evaluate and modify water application for maximum penetration, search for and expose hidden fires, assess patterns for origin determination, and evaluate for complete extinguishment.</p>	<table border="1"> <tr> <td data-bbox="836 1039 933 1092">UNIT M</td> <td data-bbox="941 1039 1469 1092">FIRE CONTROL</td> </tr> <tr> <td data-bbox="836 1102 933 1165">1</td> <td data-bbox="941 1102 1469 1165"><i>Suppressing Structure Fires</i></td> </tr> <tr> <td data-bbox="836 1176 933 1239">2</td> <td data-bbox="941 1176 1469 1239"><i>Deploying Master Stream Devices</i></td> </tr> <tr> <td data-bbox="836 1249 933 1312">3</td> <td data-bbox="941 1249 1469 1312"><i>Suppressing Class C Fires</i></td> </tr> <tr> <td data-bbox="836 1323 933 1386">4</td> <td data-bbox="941 1323 1469 1386"><i>Company Level Fire Tactics</i></td> </tr> </table>	UNIT M	FIRE CONTROL	1	<i>Suppressing Structure Fires</i>	2	<i>Deploying Master Stream Devices</i>	3	<i>Suppressing Class C Fires</i>	4	<i>Company Level Fire Tactics</i>
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<p>5.3.9 Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment, a flashlight, forcible entry tools, hose lines, and ladders when necessary, so that ladders are correctly placed when used, all assigned areas are searched, all victims are located and removed, team integrity is maintained, and team</p>	<table border="1"> <tr> <td data-bbox="836 1732 933 1785">UNIT K</td> <td data-bbox="941 1732 1469 1785">RESCUE</td> </tr> <tr> <td data-bbox="836 1795 933 1869">1</td> <td data-bbox="941 1795 1469 1869"><i>Rescue / Extrication and Applicable Guidelines</i></td> </tr> </table>	UNIT K	RESCUE	1	<i>Rescue / Extrication and Applicable Guidelines</i>						
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<p>members' safety — including respiratory protection — is not compromised.</p> <p>Requisite Knowledge: Use of forcible entry tools during rescue operations, ladder operations for rescue, psychological effects of operating in obscured conditions and ways to manage them, methods to determine if an area is tenable, primary and secondary search techniques, team members' roles and goals, methods to use and indicators of finding victims, victim removal methods (including various carries), and considerations related to respiratory protection.</p> <p>Requisite Skills: The ability to use SCBA to exit through restricted passages, set up and use different types of ladders for various types of rescue operations, rescue a fire fighter with functioning respiratory protection, rescue a fire fighter whose respiratory protection is not functioning, rescue a person who has no respiratory protection, and assess areas to determine tenability.</p>	<table border="1"> <tr> <td>2</td> <td><i>Building Searches</i></td> </tr> <tr> <td>3</td> <td><i>Actions When Firefighter is in Distress</i></td> </tr> <tr> <td>4</td> <td>Victim Removal</td> </tr> <tr> <td>5</td> <td>Emergency Power / Lighting</td> </tr> </table>	2	<i>Building Searches</i>	3	<i>Actions When Firefighter is in Distress</i>	4	Victim Removal	5	Emergency Power / Lighting		
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<p>5.3.10* Attack an interior structure fire operating as a member of a team, given an attack line, ladders when needed, personal protective equipment, tools, and an assignment, so that team integrity is maintained, the attack line is deployed for advancement, ladders are correctly placed when used, access is gained into the fire area, effective water application practices are used, the fire is approached correctly, attack techniques facilitate suppression given the level of the fire, hidden fires are located and controlled, the correct body posture is maintained, hazards are recognized and managed, and the fire is brought under control.</p> <p>Requisite Knowledge: Principles of fire streams; types, design, operation, nozzle pressure effects, and flow capabilities of nozzles; precautions to be followed when advancing hose lines to a fire; observable results that a fire stream has been properly applied; dangerous building conditions created by fire; principles of exposure protection; potential long-term consequences of exposure to products of combustion; physical states of matter in which fuels are found; common types of accidents or injuries and their causes; and the application of each size and type of attack line, the role of the backup team in fire attack situations, attack and control techniques for grade level and above and below grade levels, and exposing hidden fires.</p> <p>Requisite Skills: The ability to prevent water hammers when shutting down nozzles; open, close, and adjust nozzle flow and patterns; apply water using direct, indirect, and combination attacks; advance charged and uncharged 1½-in. (38-mm) diameter or larger hose lines up ladders and up and down interior and exterior stairways; extend hose lines; replace burst hose sections; operate charged hose lines of 1½-in. (38-mm) diameter or larger while secured to a ground ladder; couple and uncouple various handline connections; carry hose; attack fires at grade level and above and below grade levels; and locate and suppress interior wall and subfloor fires.</p>	<table border="1"> <tr> <td>UNIT M</td> <td>FIRE CONTROL</td> </tr> <tr> <td>1</td> <td><i>Suppressing Structure Fires</i></td> </tr> <tr> <td>2</td> <td><i>Deploying Master Stream Devices</i></td> </tr> <tr> <td>3</td> <td>Suppressing Class C Fires</td> </tr> <tr> <td>4</td> <td><i>Company Level Fire Tactics</i></td> </tr> </table>	UNIT M	FIRE CONTROL	1	<i>Suppressing Structure Fires</i>	2	<i>Deploying Master Stream Devices</i>	3	Suppressing Class C Fires	4	<i>Company Level Fire Tactics</i>
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<p>5.3.11 Perform horizontal ventilation on a structure operating as part of a team, given an assignment, personal protective equipment, ventilation tools, equipment, and ladders, so that the ventilation openings are free of obstructions, tools are used as designed, ladders are correctly placed, ventilation devices are correctly placed, and the structure is cleared of smoke.</p> <p>Requisite Knowledge: The principles, advantages, limitations, and effects of horizontal, mechanical, and hydraulic ventilation; safety considerations when venting a structure; fire behavior in a structure; the products of combustion found in a structure fire; the signs, causes, effects, and prevention of backdrafts; and the relationship of oxygen</p>	<table border="1"> <tr> <td>UNIT L</td> <td>VENTILATION</td> </tr> <tr> <td>1</td> <td><i>Fireground Ventilation</i></td> </tr> <tr> <td>2</td> <td>Vertical Ventilation</td> </tr> <tr> <td>3</td> <td>Roof Conditions and Vertical Ventilation</td> </tr> </table>	UNIT L	VENTILATION	1	<i>Fireground Ventilation</i>	2	Vertical Ventilation	3	Roof Conditions and Vertical Ventilation		
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<p>concentration to life safety and fire growth.</p> <p>Requisite Skills: The ability to transport and operate ventilation tools and equipment and ladders and to use safe procedures for breaking window and door glass and removing obstructions.</p>	<table border="1"> <tr> <td>4</td> <td>Other Types of Vertical Ventilation</td> </tr> <tr> <td>5</td> <td>Effectiveness of Vertical Ventilation</td> </tr> <tr> <td>6</td> <td><i>Horizontal Ventilation</i></td> </tr> <tr> <td>7</td> <td>Forced Ventilation</td> </tr> <tr> <td>8</td> <td>Effects Of Building Systems on Fires or Ventilation</td> </tr> </table>	4	Other Types of Vertical Ventilation	5	Effectiveness of Vertical Ventilation	6	<i>Horizontal Ventilation</i>	7	Forced Ventilation	8	Effects Of Building Systems on Fires or Ventilation								
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<p>5.3.12 Perform vertical ventilation on a structure as part of a team, given an assignment, personal protective equipment, ground and roof ladders, and tools, so that ladders are positioned for ventilation, a specified opening is created, all ventilation barriers are removed, structural integrity is not compromised, products of combustion are released from the structure, and the team retreats from the area when ventilation is accomplished.</p> <p>Requisite Knowledge: The methods of heat transfer; the principles of thermal layering within a structure on fire; the techniques and safety precautions for venting flat roofs, pitched roofs, and basements; basic indicators of potential collapse or roof failure; the effects of construction type and elapsed time under fire conditions on structural integrity; and the advantages and disadvantages of vertical and trench/strip ventilation.</p> <p>Requisite Skills: The ability to transport and operate ventilation tools and equipment; hoist ventilation tools to a roof; cut roofing and flooring materials to vent flat roofs, pitched roofs, and basements; sound a roof for integrity; clear an opening with hand tools; select, carry, deploy, and secure ground ladders for ventilation activities; deploy roof ladders on pitched roofs while secured to a ground ladder; and carry ventilation-related tools and equipment while ascending and descending ladders.</p>	<table border="1"> <tr> <td>UNIT L</td> <td>VENTILATION</td> </tr> <tr> <td>1</td> <td><i>Fireground Ventilation</i></td> </tr> <tr> <td>2</td> <td><i>Vertical Ventilation</i></td> </tr> <tr> <td>3</td> <td><i>Roof Conditions and Vertical Ventilation</i></td> </tr> <tr> <td>4</td> <td><i>Other Types of Vertical Ventilation</i></td> </tr> <tr> <td>5</td> <td><i>Effectiveness of Vertical Ventilation</i></td> </tr> <tr> <td>6</td> <td>Horizontal Ventilation</td> </tr> <tr> <td>7</td> <td>Forced Ventilation</td> </tr> <tr> <td>8</td> <td>Effects Of Building Systems on Fires or Ventilation</td> </tr> </table>	UNIT L	VENTILATION	1	<i>Fireground Ventilation</i>	2	<i>Vertical Ventilation</i>	3	<i>Roof Conditions and Vertical Ventilation</i>	4	<i>Other Types of Vertical Ventilation</i>	5	<i>Effectiveness of Vertical Ventilation</i>	6	Horizontal Ventilation	7	Forced Ventilation	8	Effects Of Building Systems on Fires or Ventilation
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<p>5.3.13 Overhaul a fire scene, given personal protective equipment, attack line, hand tools, a flashlight, and an assignment, so that structural integrity is not compromised, all hidden fires are discovered, fire cause evidence is preserved, and the fire is extinguished.</p> <p>Requisite Knowledge: Types of fire attack lines and water application devices most effective for overhaul, water application methods for extinguishment that limit water damage, types of tools and methods used to expose hidden fire, dangers associated with overhaul, obvious signs of area of origin or signs of arson, and reasons for protection of fire scene.</p> <p>Requisite Skills: The ability to deploy and operate an attack line; remove flooring, ceiling, and wall components to expose void spaces without compromising structural integrity; apply water for maximum effectiveness; expose and extinguish hidden fires in walls, ceilings, and subfloor spaces; recognize and preserve obvious signs of area of origin and arson; and evaluate for complete extinguishment.</p>	<table border="1"> <tr> <td>UNIT N</td> <td>SALVAGE AND OVERHAUL</td> </tr> <tr> <td>1</td> <td><i>Philosophy of Loss Control</i></td> </tr> <tr> <td>2</td> <td>Salvage</td> </tr> <tr> <td>3</td> <td><i>Overhaul</i></td> </tr> <tr> <td>UNIT Q</td> <td>FIRE PREVENTION AND INVESTIGATION</td> </tr> <tr> <td>1</td> <td><i>Indicators of an Incendiary Fire</i></td> </tr> <tr> <td>2</td> <td>On Scene Observations and Conduct</td> </tr> </table>	UNIT N	SALVAGE AND OVERHAUL	1	<i>Philosophy of Loss Control</i>	2	Salvage	3	<i>Overhaul</i>	UNIT Q	FIRE PREVENTION AND INVESTIGATION	1	<i>Indicators of an Incendiary Fire</i>	2	On Scene Observations and Conduct				
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	4	Basic techniques for public education
<p>5.3.14 Conserve property as a member of a team, given salvage tools and equipment and an assignment, so that the building and its contents are protected from further damage.</p> <p>Requisite Knowledge: The purpose of property conservation and its value to the public, methods used to protect property, types of and uses for salvage covers, operations at properties protected with automatic sprinklers, how to stop the flow of water from an automatic sprinkler head, identification of the main control valve on an automatic sprinkler system, and forcible entry issues related to salvage.</p> <p>Requisite Skills: The ability to cluster furniture; deploy covering materials; roll and fold salvage covers for reuse; construct water chutes and catch-alls; remove water; cover building openings, including doors, windows, floor openings, and roof openings; separate, remove, and relocate charred material to a safe location while protecting the area of origin for cause determination; stop the flow of water from a sprinkler with sprinkler wedges or stoppers; and operate a main control valve on an automatic sprinkler system.</p>	UNIT N	SALVAGE AND OVERHAUL
	1	<i>Philosophy of Loss Control</i>
	2	<i>Salvage</i>
	3	Overhaul
<p>5.3.15* Connect a fire department pumper to a water supply as a member of a team, given supply or intake hose, hose tools, and a fire hydrant or static water source, so that connections are tight and water flow is unobstructed.</p> <p>Requisite Knowledge: Loading and off-loading procedures for mobile water supply apparatus; fire hydrant operation; and suitable static water supply sources, procedures, and protocol for connecting to various water sources.</p> <p>Requisite Skills: The ability to hand lay a supply hose, connect and place hard suction hose for drafting operations, deploy portable water tanks as well as the equipment necessary to transfer water between and draft from them, make hydrant-to-pumper hose connections for forward and reverse lays, connect supply hose to a hydrant, and fully open and close the hydrant.</p>	UNIT O	FIRE PROTECTION WATER SYSTEMS
	1	<i>Fire Hydrants</i>
	2	<i>Alternative Water Supplies</i>
<p>5.3.16* Extinguish incipient Class A, Class B, and Class C fires, given a selection of portable fire extinguishers, so that the correct extinguisher is chosen, the fire is completely extinguished, and correct extinguisher-handling techniques are followed.</p> <p>Requisite Knowledge: The classifications of fire; the types of, rating systems for, and risks associated with each class of fire; and the operating methods of, and limitations of portable extinguishers.</p> <p>Requisite Skills: The ability to operate portable fire extinguishers, approach fire with portable fire extinguishers, select an appropriate extinguisher based on the size and type of fire, and safely carry portable fire extinguishers.</p>	UNIT F	PORTABLE FIRE EXTINGUISHERS
	1	<i>Introduction to Portable Fire Extinguishers</i>
	2	<i>Classification of Fires</i>
	3	<i>Types of Fire Extinguishers</i>
<p>5.3.17 Illuminate the emergency scene, given fire service electrical equipment and an assignment, so that designated areas are illuminated and all equipment is operated within the manufacturer's listed safety precautions.</p> <p>Requisite Knowledge: Safety principles and practices, power supply capacity and limitations, and light deployment methods.</p> <p>Requisite Skills: The ability to operate department power supply and lighting equipment, deploy cords and connectors, reset ground-fault interrupter (GFI) devices, and locate lights for best effect.</p>	UNIT K	RESCUE
	1	Rescue / Extrication and Applicable Guidelines
	2	Building Searches
	3	Actions When Firefighter is in Distress
	4	Victim Removal



COURSE TITLE

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Appendix B: NFPA / California State Fire Marshal Cross Reference

	5	Emergency Power / Lighting
<p>5.3.18 Turn off building utilities, given tools and an assignment, so that the assignment is safely completed.</p> <p>Requisite Knowledge: Properties, principles, and safety concerns for electricity, gas, and water systems; utility disconnect methods and associated dangers; and use of required safety equipment.</p> <p>Requisite Skills: The ability to identify utility control devices, operate control valves or switches, and assess for related hazards.</p>	UNIT M	FIRE CONTROL
	1	Suppressing Structure Fires
	2	Deploying Master Stream Devices
	3	Suppressing Class C Fires
	4	Company Level Fire Tactics
<p>5.3.19* Combat a ground cover fire operating as a member of a team, given protective clothing, SCBA if needed, hose lines, extinguishers or hand tools, and an assignment, so that threats to property are reported, threats to personal safety are recognized, retreat is quickly accomplished when warranted, and the assignment is completed.</p> <p>Requisite Knowledge: Types of ground cover fires, parts of ground cover fires, methods to contain or suppress, and safety principles and practices.</p> <p>Requisite Skills: The ability to determine exposure threats based on fire spread potential, protect exposures, construct a fire line or extinguish with hand tools, maintain integrity of established fire lines, and suppress ground cover fires using water.</p>	UNIT T	WILDLAND FIRE FIGHTING
		Complete an approved CSFM wildland fire training program
<p>5.4 Rescue Operations.</p> <p>This duty involves no requirements for Fire Fighter I</p>		
<p>5.5 Prevention, Preparedness, and Maintenance.</p> <p>This duty involves performing activities that reduce the loss of life and property due to fire through hazard identification, inspection, education, and response readiness, according to the following job performance requirements.</p>	UNIT Q	FIRE PREVENTION AND INVESTIGATION
	1	Indicators of an Incendiary Fire
	2	On Scene Observations and Conduct
	3	Responsibilities After the Fire
	4	Basic techniques for public education
<p>5.5.1 Perform a fire safety survey in a private dwelling, given survey forms and procedures, so that fire and life-safety hazards are identified, recommendations for their correction are made to the occupant, and unresolved issues are referred to the proper authority.</p> <p>Requisite Knowledge: Organizational policy and procedures, common causes of fire and their prevention, the importance of a fire safety survey and public fire education programs to fire department public relations and the community, and referral procedures.</p> <p>Requisite Skills: The ability to complete forms, recognize hazards, match findings to preapproved recommendations, and effectively communicate findings to occupants or referrals.</p>	UNIT Q	FIRE PREVENTION AND INVESTIGATION
	1	Indicators of an Incendiary Fire
	2	On Scene Observations and Conduct
	3	Responsibilities After the Fire
	4	Basic techniques for public education
<p>5.5.2* Present fire safety information to station visitors or small groups, given prepared materials, so that all information is presented, the information is accurate, and questions are answered or referred.</p> <p>Requisite Knowledge: Parts of informational materials and how to use</p>	UNIT Q	FIRE PREVENTION AND INVESTIGATION
	1	Indicators of an Incendiary Fire



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Appendix B: NFPA / California State Fire Marshal Cross Reference

<p>them, basic presentation skills, and departmental standard operating procedures for giving fire station tours.</p> <p>Requisite Skills: The ability to document presentations and to use prepared materials.</p>	2	On Scene Observations and Conduct
	3	Responsibilities After the Fire
	4	Basic techniques for public education
	UNIT I GROUND LADDERS	
<p>5.5.3 Clean and check ladders, ventilation equipment, self-contained breathing apparatus (SCBA), ropes, salvage equipment, and hand tools, given cleaning tools, cleaning supplies, and an assignment, so that equipment is clean and maintained according to manufacturer's or departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise.</p> <p>Requisite Knowledge: Types of cleaning methods for various tools and equipment, correct use of cleaning solvents, and manufacturer's or departmental guidelines for cleaning equipment and tools.</p> <p>Requisite Skills: The ability to select correct tools for various parts and pieces of equipment, follow guidelines, and complete recording and reporting procedures.</p>	1	Introduction to Ladders
	2	Maintenance, Cleaning and Inspection
	3	Working With Ladders
<p>5.5.4 Clean, inspect, and return fire hose to service, given washing equipment, water, detergent, tools, and replacement gaskets, so that damage is noted and corrected, the hose is clean, and the equipment is placed in a ready state for service.</p> <p>Requisite Knowledge: Departmental procedures for noting a defective hose and removing it from service, cleaning methods, and hose rolls and loads.</p> <p>Requisite Skills: The ability to clean different types of hose; operate hose washing and drying equipment; mark defective hose; and replace coupling gaskets, roll hose, and reload hose.</p>	UNIT H HOSE, NOZZLES, AND APPLIANCES	
	1	Fire Hose Sizes
	2	Causes and Prevention of Fire Hose Damage
	3	General Care and Maintenance of Fire Hose
	4	Fire Hose Couplings, Tools and Appliances
	5	Hose Loads, Rolls and Finishes
	6	Supply Hose Lays
	7	Handling, Advancing and Operating Hoselines
	8	Fire Stream Use
	9	Water and Fire Streams
	10	Fire Stream Sizes, Types and Nozzles
11	Nozzle Control Valves and Inspections	



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Appendix C: State Fire Training Firefighter-I / NFPA Standards

Appendix C: State Fire Training Firefighter-I / NFPA Standards

CSFM DRAFT COURSE CONTENT:	NFPA REFERENCE	IFSTA FF-1 PROGRAM = LESSON PLAN CONTENT	CSFM FF-1 = LESSON PLAN CONTENT
UNIT A: FIRE SERVICE ORGANIZATION AND RESPONSIBILITY (3:00)		CHAPTER 1	PENDING
1. Introduction to the Volunteer Fire Fighter Program	<i>NFPA® 1001, 5.1.1</i>		
2. Course and Lesson Overview		CH-1 Section II: Course and Lesson Overview	
3. Introduction to the Fire Service	<i>NFPA® 1001, 5.1.1 Local Standards</i>	CH 1 Section III: Introduction to the Fire Service	
4. The Incident Command System (ICS / SEMS)	<i>NFPA® 1001, 5.1.1 Local Standards</i>	CH-1 Section IV: The Incident Command System (ICS)	
5. Relationship Of Fire Department With Other Local Agencies	<i>NFPA® 1001, 5.1.1 Local Standards</i>	CH-1 Section V: Working with Other Organizations	
6. Summary and Review	<i>NFPA® 1001, 5.1.1 Local Standards</i>	CH-1 Section VI: Summary and Review	
UNIT B: RESERVED			
UNIT C: FIRE BEHAVIOR AND EXTINGUISHMENT THEORY (3:00)		CHAPTER-3 CHAPTER-4	
1. Introduction to Fire Behavior	<i>NFPA® 1001, 5.3.11</i>	CH-3 Section I: Introduction to Chapter 3	
2. Principals of Fire Behavior		CH-3 Section II: Principles of Fire Behavior	
3. The Combustion Process	<i>NFPA® 1001, 5.3.12</i>	CH-3 Section III: The Combustion Process	
4. Classifications of Fires	<i>NFPA® 1001, 5.3.16</i>	CH-3 Section IV: Classifications of Fires	
5. Fire Development	<i>NFPA® 1001, 5.3.8</i>	CH-3 Section V: Fire Development	
6. Methods to Control and Extinguish Fire	<i>NFPA® 1001, 5.3.8</i>	CH-3 Section VI: Methods to Control and extinguish Fire	
7. Summary of Fire Behavior	<i>NFPA® 1001, 5.3.8 NFPA® 1001, 5.3.11 NFPA® 1001, 5.3.12 NFPA® 1001, 5.3.16</i>	CH-3 Section VII: Summary and Review	
8. Introduction to Building Construction	<i>NFPA® 1001, 5.3.10</i>	CH-4 Section I: Introduction to Chapter 4	
9. Basic Construction Knowledge	<i>NFPA® 1001, 5.3.10</i>	CH-4 Section II: Basic Construction Knowledge	
10. Building Collapse and Construction Hazards	<i>NFPA® 1001, 5.3.12</i>	CH-4 Section III: Building Collapse and Construction Hazards	
11. Summary of Building Construction	<i>NFPA® 1001, 5.3.10 NFPA® 1001, 5.3.12</i>	CH-4 Section IV: Summary and Review	
UNIT D: FIRE FIGHTER SAFETY (3:00)		CHAPTER 2	
1. Course Introduction			
2. Introduction to Firefighter Safety and Health	<i>NFPA® 1001, 5.1.1 NFPA® 1001, 5.3.2</i>	CH-2 Section II: Introduction to Firefighter Safety and Health	



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Appendix C: State Fire Training Firefighter-I / NFPA Standards

3. Risk Management	NFPA® 1001, 5.1.1	CH-2 Section III: Risk Management	
4. Fire Department Safety and Health Program	NFPA® 1001, 5.1.1	CH-2 Section IV: Fire Department Safety and Health Program	
5. Emergency Operations	NFPA® 1001, 5.1.1 NFPA® 1001, 5.3.5	CH-2 Section V: Emergency Operations	
6. Incident Safety Concerns	NFPA® 1001, 5.3.3	CH-2 Section VI: Incident Safety Concerns	
7. Summary and Review	NFPA® 1001, 5.1.1 NFPA® 1001, 5.3.2 NFPA® 1001, 5.3.3 NFPA® 1001, 5.3.5	CH-2 Section VII: Summary and Review	
UNIT E: SELF-CONTAINED BREATHING APPARATUS (6:00)		CHAPTER -5	
1. Course Introduction		CH-5 Section I: Introduction to Chapter 5	
2. Introduction to Personal Protective Clothing	NFPA® 1001, 5.1.1	CH-5 Section II: Introduction to Personal Protective Clothing	
3. Respiratory Hazards	NFPA® 1001, 5.3.1	CH-5 Section III: Respiratory Hazards	
4. Use and Limitations of Respiratory Protection	NFPA® 1001, 5.3.1	CH-5 Section IV: Use and Limitations of Respiratory Protection	
5. Air Purifying Respirators and SCBA	NFPA® 1001, 5.3.1	CH-5 Section V: Air-purifying Respirators and SCBA	
6. PASS Devices and Other Safety Considerations	NFPA® 1001, 5.3.5	CH-5 Section VI: PASS Devices and Other Safety Considerations	
7. SCBA Use and Maintenance	NFPA® 1001, 5.5.1	CH-5 Section VII: SCBA Use and Maintenance	
8. SCBA Safety Precautions	NFPA® 1001, 5.3.1	CH-5 Section VIII: SCBA Safety Precautions	
9. Emergency Operations and Limited Visibility	NFPA® 1001, 5.3.5	CH-5 Section IX: Emergency Operations and Limited Visibility	
UNIT F: PORTABLE FIRE EXTINGUISHERS (3:00)		CHAPTER-6	
1. Course Introduction	NFPA® 1001, 5.1.1 NFPA® 1001, 5.3.16	CH-6 Section I: Introduction to Chapter 6	
2. Introduction to Portable Fire Extinguishers	NFPA® 1001, 5.3.16	CH-6 Section II: Introduction to Portable Fire Extinguishers	
3. Classification of Fires	NFPA® 1001, 5.3.16	CH-6 Section III: Classifications of Fires	
4. Types of Fire Extinguishers	NFPA® 1001, 5.3.16	CH-6 Section IV: Types of Fire Extinguishers	
5. Portable Extinguisher Rating System	NFPA® 1001, 5.3.16	CH-6 Section V: Portable Extinguisher Rating System	
6. Selecting and Using Portable Fire Extinguishers	NFPA® 1001, 5.3.16	CH-6 Section VI: Selecting and Using Portable Extinguishers	
7. Summary and Review	NFPA® 1001, 5.1.1 NFPA® 1001, 5.3.16	CH-6 Section VII: Summary and Review	
UNIT G: ROPES, KNOTS, AND HITCHES (3:00)		CHAPTER-7	



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Appendix C: State Fire Training Firefighter-I / NFPA Standards

1. Course Introduction	NFPA® 1001, 5.1.1	CH-7 Section I: Introduction to Chapter 7	
2. Introduction to Ropes	NFPA® 1001, 5.1.1	CH-7 Section II: Introduction to Ropes	
3. Rope Maintenance	NFPA® 1001, 5.5.1	CH-7 Section III: Rope Maintenance	
4. Webbing	NFPA® 1001, 5.1.1	CH-7 Section IV: Webbing	
5. Ropes Knots and Hardware	NFPA® 1001, 5.1.1 NFPA® 1001, 5.1.2	CH-7 Section V: Ropes, Knots, and Hardware	
6. Hoisting Safety	NFPA® 1001, 5.1.1	CH-7 Section VI: Hoisting Safety	
7. Rescue Rope Harness	NFPA® 1001, 5.1.1	CH-7 Section VII: Rescue Rope and Harness	
8. Summary and Review	NFPA® 1001, 5.1.1 NFPA® 1001, 5.1.2 NFPA® 1001, 5.5.1	CH-7 Section VIII: Summary and Review	
UNIT H: HOSE, NOZZLES, AND APPLIANCES (3:00)		CHAPTER-13 CHAPTER-14	
1. Introduction to Fire Hose	NFPA® 1001, 5.1.1 NFPA® 1001, 5.3.10	CH-13 Section I: Introduction to Chapter 13	
2. Fire Hose Sizes	NFPA® 1001, 5.1.1 NFPA® 1001, 5.3.10	CH-13 Section II: Fire Hose Sizes	
3. Causes and Prevention of Fire Hose Damage	NFPA® 1001, 5.5.2	CH-13 Section III: Causes and Prevention of Fire Hose Damage	
4. General Care and Maintenance of Fire Hose	NFPA® 1001, 5.5.2	CH-13 Section IV: General Care and Maintenance of Fire Hose	
5. Fire Hose Couplings, Tools and Appliances	NFPA® 1001, 5.3.10 NFPA® 1001, 5.5.2	CH-13 Section V: Fire Hose Couplings, Tools, and Appliances	
6. Hose Loads, Rolls and Finishes	NFPA® 1001, 5.3.10	CH-13 Section VI: Hose Rolls, Loads, and Finishes	
7. Supply Hose Lays	NFPA® 1001, 5.3.10	CH-13 Section VII: Supply Hose Lays	
8. Handling, Advancing and Operating Hoselines	NFPA® 1001, 5.3.10	CH-13 Section VIII: Handling, Advancing, and Operating Hoselines	
9. Fire Hose Summary and Review	NFPA® 1001, 5.3.10	CH-13 Section IX: Summary and Review	
10. Introduction to Fire Streams	NFPA® 1001, 5.3.10	CH-14 Section I: Introduction to Chapter 14	
11. Fire Stream Use	NFPA® 1001, 5.3.10	CH-14 Section II: Fire Stream Use	
12. Water and Fire Streams	NFPA® 1001, 5.3.10	CH-14 Section III: Water and Fire Streams	
13. Fire Stream Sizes, Types and Nozzles	NFPA® 1001, 5.3.10	CH-14 Section IV: Fire Stream Sizes, Types, and Nozzles	
14. Nozzle Control Valves and Inspections	NFPA® 1001, 5.3.10	CH-14 Section V: Nozzle Control Valves and Inspections	
15. Summary and Review	NFPA® 1001, 5.1.1 NFPA® 1001, 5.3.10 NFPA® 1001, 5.5.2	CH-14 Section VI: Summary and Review	
UNIT I: GROUND LADDERS (3:00)		CHAPTER-10	
1. Course Introduction	NFPA® 1001, 5.3.6	CH-10 Section I:	



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Appendix C: State Fire Training Firefighter-I / NFPA Standards

		Introduction to Chapter 10	
2. Introduction to Ladders	NFPA® 1001, 5.3.6	CH-10 Section II: Introduction to Ladders	
3. Maintenance, Cleaning and Inspection	NFPA® 1001, 5.5.1	CH-10 Section III: Maintenance, Cleaning, and Inspection	
4. Working With Ladders	NFPA® 1001, 5.3.6	CH-10 Section IV: Working with Ladders	
5. Summary and Review	NFPA® 1001, 5.5.1 NFPA® 1001, 5.3.6	CH-10 Section V: Summary and Review	
UNIT J: FORCIBLE ENTRY (3:00)		CHAPTER-9	
1. Introduction to Forcible Entry	NFPA® 1001, 5.3.4	CH-9 Section I: Introduction to Chapter 9	
2. Forcible Entry Tools	NFPA® 1001, 5.3.4	CH-9 Section II: Forcible Entry Tools	
3. Forcible Entry Tool Safety and Care	NFPA® 1001, 5.5.1	CH-9 Section III: Forcible Entry Tool Safety and Care	
4. Forcing Doors, Locks, Gates and Fences	NFPA® 1001, 5.3.4	CH-9 Section IV: Forcing Doors, Locks, Gates, and Fences	
5. Forcing Windows	NFPA® 1001, 5.3.4	CH-9 Section V: Forcing Windows	
6. Breaching Walls and Floors	NFPA® 1001, 5.3.4	CH-9 Section VI: Breaching Walls and Floors	
7. Summary and Review	NFPA® 1001, 5.3.4 NFPA® 1001, 5.5.1	CH-9 Section VII: Summary and Review	
UNIT K: RESCUE (3:00)		CHAPTER-8	
1. Introduction to Rescue	NFPA® 1001, 5.3.9	CH-8 Section I: Introduction to Chapter 8	
2. Rescue / Extrication and Applicable Guidelines	NFPA® 1001, 5.3.9	CH-8 Section II: Rescue/Extrication and Applicable Guidelines	
3. Building Searches	NFPA® 1001, 5.3.9	CH-8 Section III: Building Searches	
4. Actions When Firefighter is in Distress	NFPA® 1001, 5.3.9 NFPA® 1001, 5.3.5	CH-8 Section IV: Actions When Firefighter Is in Distress	
5. Victim Removal	NFPA® 1001, 5.3.9	CH-8 Section V: Victim Removal	
6. Emergency Power / Lighting	NFPA® 1001, 5.3.17	CH-8 Section VI: Emergency Power/Lighting	
7. Summary and Review	NFPA® 1001, 5.3.9 NFPA® 1001, 5.3.17	CH-8 Section VII: Summary and Review	
UNIT L: VENTILATION (3:00)		CHAPTER 11	
1. Introduction to Ventilation	NFPA® 1001, 5.3.11 NFPA® 1001, 5.3.12	CH-11 Section I: Introduction to Chapter 11	
2. Fireground Ventilation	NFPA® 1001, 5.3.11 NFPA® 1001, 5.3.12	CH-11 Section II: Fireground Ventilation	
3. Vertical Ventilation	NFPA® 1001, 5.3.12	CH-11 Section III: Vertical Ventilation	
4. Roof Conditions and Vertical Ventilation	NFPA® 1001, 5.3.12	CH-11 Section IV: Roof Conditions and Vertical Ventilation	

5. Other Types of Vertical Ventilation	NFPA® 1001, 5.3.12	CH-11 Section V: Other Types of Vertical Ventilation	
6. Effectiveness of Vertical Ventilation	NFPA® 1001, 5.3.12	CH-11 Section VI: Effectiveness of Vertical Ventilation	
7. Horizontal Ventilation	NFPA® 1001, 5.3.11	CH-11 Section VII: Horizontal Ventilation	
8. Forced Ventilation	NFPA® 1001, 5.3.11	CH-11 Section VIII: Forced Ventilation	
?? Effects of Building Systems on Fires or Ventilation	NFPA® 1001, 5.3.11 NFPA® 1001, 5.3.12	CH-11 Section IX: Effects of Building Systems on Fires or Ventilation	
9. Summary and Review	NFPA® 1001, 5.3.11 NFPA® 1001, 5.3.12	CH-11 Section X: Summary and Review	
UNIT M: FIRE CONTROL (3:00)		CHAPTER-15	
1. Introduction to Fire Control	NFPA® 1001, 5.3.10	CH-15 Section I: Introduction to Chapter 15	
2. Suppressing Structure Fires	NFPA® 1001, 5.3.10	CH-15 Section II: Suppressing Structure Fires	
3. Deploying Master Stream Devices	NFPA® 1001, 5.3.10	CH-15 Section III: Deploying Master Stream Devices	
4. Suppressing Class C Fires	NFPA® 1001, 5.3.16	CH-15 Section IV: Suppressing Class C Fires	
5. Company Level Fire Tactics	NFPA® 1001, 5.3.7 NFPA® 1001, 5.3.8 NFPA® 1001, 5.3.10 NFPA® 1001, 5.3.19	CH-15 Section V: Company-Level Fire Tactics	
6. Summary and Review	NFPA® 1001, 5.3.7 NFPA® 1001, 5.3.8 NFPA® 1001, 5.3.10 NFPA® 1001, 5.3.19	CH-15 Section VI: Summary and Review	
UNIT N: SALVAGE AND OVERHAUL (3:00)		CHAPTER-17	
1. Introduction to Loss Control	NFPA® 1001, 5.3.14	CH-17 Section I: Introduction to Chapter 17	
2. Philosophy of Loss Control	NFPA® 1001, 5.5.1 NFPA® 1001, 5.3.13 NFPA® 1001, 5.3.14	CH-17 Section II: Philosophy of Loss Control	
3. Salvage	NFPA® 1001, 5.3.14	CH-17 Section III: Salvage	
4. Overhaul	NFPA® 1001, 5.3.10, NFPA® 1001, 5.3.13	CH-17 Section IV: Overhaul	
5. Summary and Review	NFPA® 1001, 5.5.1 NFPA® 1001, 5.3.13 NFPA® 1001, 5.3.14	CH-17 Section V: Summary and Review	
UNIT O: FIRE PROTECTION WATER SYSTEMS (3:00)		CHAPTER-12	
1. Introduction to Water Systems	NFPA® 1001, 5.3.15	CH-12 Section I: Introduction to Chapter 12	
2. Fire Hydrants	NFPA® 1001, 5.3.15	CH-12 Section II: Fire Hydrants	
3. Alternative Water Supplies		CH-12 Section III: Alternative Water Supplies	
4. Rural Water Supply Operations	NFPA® 1001, 5.3.15	CH-12 Section IV: Rural Water Supply Operations	
5. Summary and Review	NFPA® 1001, 5.3.15	CH-12 Section V: Summary	



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Appendix C: State Fire Training Firefighter-I / NFPA Standards

		and Review	
UNIT P: FIRE PROTECTION SYSTEMS (3:00)		CHAPTER-16	
1. Introduction to Fire Protection Systems	NFPA® 1001, 5.3.14	CH-16 Section I: Introduction to Chapter 16	
2. Functions of Fire Detection, Alarm and Suppression Systems	NFPA® 1001, 5.3.14	CH-16 Section II: Functions of Fire Detection, Alarm, and Suppression Systems	
3. Automatic Sprinkler Systems	NFPA® 1001, 5.3.14	CH-16 Section III: Automatic Sprinkler Systems	
4. Operations at Fires in Protected Properties	NFPA® 1001, 5.3.14	CH-16 Section IV: Operations at Fires in Protected Properties	
5. Summary and Review	NFPA® 1001, 5.3.14	CH-16 Section V: Summary and Review	
UNIT Q: FIRE PREVENTION AND INVESTIGATION (2:00)		CHAPTER-18	
1. Introduction to Fire Prevention and Investigation	NFPA® 1001, 5.1.1.1 NFPA® 1001, 5.3.13	CH-18 Section I: Introduction to Chapter 18	
2. Indicators of an Incendiary Fire	NFPA® 1001, 5.3.13	CH-18 Section II: Indicators of an Incendiary Fire	
3. On Scene Observations and Conduct	NFPA® 1001, 5.1.1.1 NFPA® 1001, 5.3.13	CH-18 Section III: On the Scene: Observations and Conduct	
4. Responsibilities After the Fire	NFPA® 1001, 5.1.1.1 NFPA® 1001, 5.3.13	CH-18 Section IV: Responsibilities After the Fire	
5. Summary and Review	NFPA® 1001, 5.1.1.1 NFPA® 1001, 5.3.13	CH-18 Section V: Summary and Review	
UNIT R: COMMUNICATIONS (4:45)		CHAPTER-19	
1. Introduction to Communications	NFPA® 1001, 5.2.1	CH-19 Section I: Introduction to Chapter 19	
2. Communications Center Personnel	NFPA® 1001, 5.2.1	CH-19 Section II: Communications Center Personnel	
3. Communications Center	NFPA® 1001, 5.2.1	CH-19 Section III: Communications Center	
4. Receiving Calls From the Public	NFPA® 1001, 5.2.1 NFPA® 1001, 5.2.2	CH-19 Section IV: Receiving Calls from the Public	
5. Alerting Fire Department Personnel	NFPA® 1001, 5.2.1	CH-19 Section V: Alerting Fire Department Personnel	
6. Radio communications	NFPA® 1001, 5.2.3	CH-19 Section VI: Radio Communications	
UNIT S: VEHICLE EXTRICATION (17:30)	CSFM Requirement		
1. Introduction To The Principles Of Vehicle Extrication			
UNIT T: WILDLAND FIRE FIGHTING (27:45)	CSFM Requirement		
1. Wildland Fire Behavior			
UNIT U: EMERGENCY CARE (21)		CHAPTER 21	



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Appendix C: State Fire Training Firefighter-I / NFPA Standards

Complete, at a minimum, an APPROVED First-Aid and CPR course	Cal. Admin. Code tit. 22, § 100018		
UNIT V: INCIDENT COMMAND SYSTEM	CSFM Requirement		
Complete an ICS-200 (Introduction To ICS) course			
UNIT W: CONFINED SPACE RESCUE	CSFM Requirement		
Complete a Confined Space Rescue Awareness course			
UNIT X: HAZARDOUS MATERIALS	Cal. Admin. Code tit. 8, § 5192(q)(6)(A)	CHAPTER 22 CHAPTER 23	
Complete an OSFM recognized Hazardous Materials First Responder -Awareness course			

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Appendix D: State and Federal Mandated Training

Appendix D: State and Federal Mandated Training

STATE AND FEDERAL MANDATED TRAINING / NFPA FIREFIGHTER-1 PROFESSIONAL QUALIFICATIONS CROSS REFERENCE

STATE/FED REQUIRED TRAINING	CODE CITATION	Entry Level	HOW DELIVERED
Injury and Illness Prevention Program (IIPP)	Cal. Admin. Code tit. 8, § 3203	YES	UNIT D: FIRE FIGHTER SAFETY 1. Course Introduction 2. Introduction to Firefighter Safety and Health 3. Risk Management 4. Fire Department Safety and Health Program 5. Emergency Operations 6. Incident Safety Concerns 7. Summary and Review 8. Put Text Here
Emergency Action Plan (Evacuation Plan)	Cal. Admin. Code tit. 8, § 3220	YES	UNIT D: FIRE FIGHTER SAFETY 1. Course Introduction 2. Introduction to Firefighter Safety and Health 3. Risk Management 4. Fire Department Safety and Health Program 5. Emergency Operations 6. Incident Safety Concerns
Fire Prevention Plan	Cal. Admin. Code tit. 8, § 3221	YES	UNIT D: FIRE FIGHTER SAFETY 1. Course Introduction 2. Introduction to Firefighter Safety and Health 3. Risk Management 4. Fire Department Safety and Health Program 5. Emergency Operations 6. Incident Safety Concerns
Portable Fire Extinguishers	Cal. Admin. Code tit. 8, § 6151(g)	YES	UNIT F: PORTABLE FIRE EXTINGUISHERS (3:00) 1. Course Introduction 2. Introduction to Portable Fire Extinguishers 3. Classification of Fires 4. Types of Fire Extinguishers 5. Portable Extinguisher Rating System 6. Selecting and Using Portable Fire Extinguishers
Heat Illness Prevention in Outdoor Places of Employment	Cal. Admin. Code tit. 8, § 3395	YES	UNIT D: FIRE FIGHTER SAFETY 1. Course Introduction 2. Introduction to Firefighter Safety and Health 3. Risk Management 4. Fire Department Safety and Health Program 5. Emergency Operations 6. Incident Safety Concerns
Sexual Harassment	Govt. Code §12950.1.(a)	NO	Supervisors only. Should not apply to Volunteer Fire Fighter – unless an officer. "By January 1, 2006, an employer having 50 or more employees shall provide at least two hours of classroom or other effective interactive training and education regarding sexual



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Appendix D: State and Federal Mandated Training

			harassment to all supervisory employees in California who are employed as of July 1, 2005, and to all new supervisory employees within six months of their assumption of a supervisory position."								
Hazard Communication	Cal. Admin. Code tit. 8, § 5194(h)	YES	<p>May be included as part of UNIT D: FIRE FIGHTER SAFETY Part of HM-Awareness and First Responder Operations units.</p> <table border="1"> <thead> <tr> <th>UNIT D: FIRE FIGHTER SAFETY</th> </tr> </thead> <tbody> <tr><td>1. Course Introduction</td></tr> <tr><td>2. Introduction to Firefighter Safety and Health</td></tr> <tr><td>3. Risk Management</td></tr> <tr><td>4. Fire Department Safety and Health Program</td></tr> <tr><td>5. Emergency Operations</td></tr> <tr><td>6. Incident Safety Concerns</td></tr> </tbody> </table> <p>"Employers shall provide employees with effective information and training on hazardous substances in their work area at the time of their initial assignment, and whenever a new hazard is introduced into their work area"</p>	UNIT D: FIRE FIGHTER SAFETY	1. Course Introduction	2. Introduction to Firefighter Safety and Health	3. Risk Management	4. Fire Department Safety and Health Program	5. Emergency Operations	6. Incident Safety Concerns	
UNIT D: FIRE FIGHTER SAFETY											
1. Course Introduction											
2. Introduction to Firefighter Safety and Health											
3. Risk Management											
4. Fire Department Safety and Health Program											
5. Emergency Operations											
6. Incident Safety Concerns											
Repetitive Motion Injuries	Cal. Admin. Code tit. 8, § 5110	NO	Required after claim – probably not applicable to Volunteer Fire Fighter								
NIMS (National Incident Management System)	DHS Federal Requirement	YES	<table border="1"> <thead> <tr> <th>UNIT A: FIRE SERVICE ORGANIZATION AND RESPONSIBILITY</th> </tr> </thead> <tbody> <tr><td>1. Introduction to the Volunteer Fire Fighter Program</td></tr> <tr><td>2. Course and Lesson Overview</td></tr> <tr><td>3. Introduction to the Fire Service</td></tr> <tr><td>4. The Incident Command System (ICS / SEMS)</td></tr> <tr><td>5. Relationship Of Fire Department With Other Local Agencies</td></tr> </tbody> </table>	UNIT A: FIRE SERVICE ORGANIZATION AND RESPONSIBILITY	1. Introduction to the Volunteer Fire Fighter Program	2. Course and Lesson Overview	3. Introduction to the Fire Service	4. The Incident Command System (ICS / SEMS)	5. Relationship Of Fire Department With Other Local Agencies		
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Standardized Emergency Management System (SEMS) Minimum Performance Objectives for Field Response Level	Cal. Admin. Code tit. 19, § 2428	YES	<table border="1"> <thead> <tr> <th>UNIT A: FIRE SERVICE ORGANIZATION AND RESPONSIBILITY</th> </tr> </thead> <tbody> <tr><td>1. Introduction to the Volunteer Fire Fighter Program</td></tr> <tr><td>2. Course and Lesson Overview</td></tr> <tr><td>3. Introduction to the Fire Service</td></tr> <tr><td>4. The Incident Command System (ICS / SEMS)</td></tr> <tr><td>5. Relationship Of Fire Department With Other Local Agencies</td></tr> </tbody> </table>	UNIT A: FIRE SERVICE ORGANIZATION AND RESPONSIBILITY	1. Introduction to the Volunteer Fire Fighter Program	2. Course and Lesson Overview	3. Introduction to the Fire Service	4. The Incident Command System (ICS / SEMS)	5. Relationship Of Fire Department With Other Local Agencies		
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CONTROL OF NOISE EXPOSURE Training Program	Cal. Admin. Code tit. 8, § 5099	YES	<table border="1"> <thead> <tr> <th>UNIT D: FIRE FIGHTER SAFETY</th> </tr> </thead> <tbody> <tr><td>1. Course Introduction</td></tr> <tr><td>2. Introduction to Firefighter Safety and Health</td></tr> <tr><td>3. Risk Management</td></tr> <tr><td>4. Fire Department Safety and Health Program</td></tr> <tr><td>5. Emergency Operations</td></tr> <tr><td>6. Incident Safety Concerns</td></tr> </tbody> </table>	UNIT D: FIRE FIGHTER SAFETY	1. Course Introduction	2. Introduction to Firefighter Safety and Health	3. Risk Management	4. Fire Department Safety and Health Program	5. Emergency Operations	6. Incident Safety Concerns	
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Respiratory Protection	Cal. Admin. Code tit. 8, § 5144(k)	YES	<table border="1"> <thead> <tr> <th>UNIT E: SELF-CONTAINED BREATHING APPARATUS</th> </tr> </thead> <tbody> <tr><td>1. Course Introduction</td></tr> <tr><td>2. Introduction to Personal Protective Clothing</td></tr> <tr><td>3. Respiratory Hazards</td></tr> <tr><td>4. Use and Limitations of Respiratory Protection</td></tr> <tr><td>5. Air Purifying Respirators and SCBA</td></tr> <tr><td>6. PASS Devices and Other Safety Considerations</td></tr> <tr><td>7. SCBA Use and Maintenance</td></tr> </tbody> </table>	UNIT E: SELF-CONTAINED BREATHING APPARATUS	1. Course Introduction	2. Introduction to Personal Protective Clothing	3. Respiratory Hazards	4. Use and Limitations of Respiratory Protection	5. Air Purifying Respirators and SCBA	6. PASS Devices and Other Safety Considerations	7. SCBA Use and Maintenance
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COURSE TITLE

Course Subtitle



Appendix D: State and Federal Mandated Training

			8. SCBA Safety Precautions 9. Emergency Operations and Limited Visibility
Two In / Two Out Rule	8 CCR §5144(g)(3)	YES	UNIT D: FIRE FIGHTER SAFETY 1. Course Introduction 2. Introduction to Firefighter Safety and Health 3. Risk Management 4. Fire Department Safety and Health Program 5. Emergency Operations 6. Incident Safety Concerns UNIT E: SELF-CONTAINED BREATHING APPARATUS 1. Course Introduction 2. Introduction to Personal Protective Clothing 3. Respiratory Hazards 4. Use and Limitations of Respiratory Protection 5. Air Purifying Respirators and SCBA 6. PASS Devices and Other Safety Considerations 7. SCBA Use and Maintenance 8. SCBA Safety Precautions 9. Emergency Operations and Limited Visibility
Medical Records Privacy HIPAA	Federal Law-Public Law 104-191 104th Congress	NO	REQUIRED IF USING ELECTRONIC RECORDS Probably not applicable to most volunteer fire companies. "SEC. 1172. (a) APPLICABILITY.--Any standard adopted under this part shall apply, in whole or in part, to the following persons: "(1) A health plan. "(2) A health care clearinghouse. "(3) A health care provider who transmits any health information in electronic form in connection with a transaction referred to in section 1173(a)(1).
FIRST AID STANDARDS FOR PUBLIC SAFETY PERSONNEL GENERAL TRAINING PROVISIONS	Cal. Admin. Code tit. 22, § 100018 See also: Cal. Admin. Code tit. 22, § 100026 "Approved Courses " and Health & Safety Code §1797.182	Within 1 yr	The initial course of instruction shall at a minimum consist of not less than fifteen (15) hours in first aid and six (6) hours in cardiopulmonary resuscitation. Must be provided by State approved course of instruction. UNIT U: EMERGENCY CARE Complete, at a minimum, an approved First Aid and CPR Course
FIRST AID STANDARDS FOR PUBLIC SAFETY PERSONNEL GENERAL TRAINING PROVISIONS Optional Skill	Cal. Admin. Code tit. 22, § 100020	Within 1 Yr	In addition to the activities authorized by Cal. Admin. Code tit. 22 Section 100019, public safety personnel may perform AED when authorized by a public safety AED service provider. (1) Training for the AED shall consist of not less than four (4) hours
Child Abuse Elder Abuse	22 CCR §100015, et.al. Welfare and Institution Code 15610-15765, July 1999)	??	Should be part of annual EMS training
SIDS	?????	??	Should be part of initial and annual EMS training
Bloodborne Pathogens	Cal. Admin. Code tit. 8, § 5193(g)(2)	YES	Required for entry-level and annually Can be part of EMS training
Personal Protective Equipment	8 CCR §3401-3411	YES	



COURSE TITLE

Course Subtitle



Appendix D: State and Federal Mandated Training

(PPE) for Firefighters			<p>UNIT D: FIRE FIGHTER SAFETY</p> <ol style="list-style-type: none"> 1. Course Introduction 2. Introduction to Firefighter Safety and Health 3. Risk Management 4. Fire Department Safety and Health Program 5. <i>Emergency Operations</i> 6. <i>Incident Safety Concerns</i> <p>UNIT E: SELF-CONTAINED BREATHING APPARATUS</p> <ol style="list-style-type: none"> 1. Course Introduction 2. <i>Introduction to Personal Protective Clothing</i> 3. <i>Respiratory Hazards</i> 4. Use and Limitations of Respiratory Protection 5. Air Purifying Respirators and SCBA 6. PASS Devices and Other Safety Considerations 7. SCBA Use and Maintenance 8. SCBA Safety Precautions 9. Emergency Operations and Limited Visibility
Hazardous Materials, First Responder, Awareness Level (FRA)	Cal. Admin. Code tit. 8, § 5192(q)(6)(A)	YES	<p>“First responders at the awareness level are individuals who are likely to witness or discover a hazardous substance release and who have been trained to initiate an emergency response sequence by notifying the proper authorities of the release. They would take no further action beyond notifying the authorities of the release.”</p>
Hazardous Materials, First Responder, Operations Level (FRO)	Cal. Admin. Code tit. 8, § 5192(q)(6)(B)	NO	<p>“First responders at the operations level are individuals who respond to releases or potential releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. They are trained to respond in a defensive fashion without actually trying to stop the release. Their function is to contain the release from a safe distance, keep it from spreading, and prevent exposures.”</p>
Incident Command System (ICS)	19 CCR §2400-2446	???	Specialized ICS training ???
ICS Position Training (CICCS)	19 CCR §2400-2446	???	Specialized ICS training ???
Electrical Safety	Cal. Admin. Code tit. 8, § 2320.1	YES	<p>UNIT D: FIRE FIGHTER SAFETY</p> <ol style="list-style-type: none"> 1. Course Introduction 2. Introduction to Firefighter Safety and Health 3. Risk Management 4. Fire Department Safety and Health Program 5. <i>Emergency Operations</i> 6. <i>Incident Safety Concerns</i> <p>UNIT K: RESCUE</p> <ol style="list-style-type: none"> 1. Introduction to Rescue 2. Rescue / Extrication and Applicable Guidelines 3. Building Searches 4. Actions When Firefighter is in Distress 5. Victim Removal 6. <i>Emergency Power / Lighting</i> <p>UNIT M: FIRE CONTROL (3:00)</p> <ol style="list-style-type: none"> 3. Introduction to Fire Control 2. Suppressing Structure Fires



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Appendix D: State and Federal Mandated Training

			3. Deploying Master Stream Devices
			4. Suppressing Class C Fires
			5. <i>Company Level Fire Tactics</i>
			UNIT N: SALVAGE AND OVERHAUL
			2. Introduction to Loss Control
			4. Philosophy of Loss Control
			3. <i>Salvage</i>
			4. <i>Overhaul</i>

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Appendix Letter: Other Relevant Material (Heading 1)

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