Fire Fighter 2


Publication Date: January 2020

This CTS guide utilizes the following NFPA standards to provide the qualifications for State Fire Training’s Fire Fighter 1 (2019) certification:


State Fire Training coordinated the development of this CTS guide. Before its publication, the Statewide Training and Education Advisory Committee (STEAC) and the State Board of Fire Services (SBFS) recommended this CTS guide for adoption by the Office of the State Fire Marshal (OSFM).

Cover photo courtesy of Craig Allyn Rose Photography.

Published by State Fire Training.
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Acknowledgements

State Fire Training appreciates the hard work and accomplishments of those who build the solid foundation on which this program continues to grow. State Fire Training gratefully acknowledges the following individuals and organizations for their diligent efforts and contributions that made the development and publication of this document possible.

CAL FIRE

- Thom Porter, Director
- Mike Richwine, Acting State Fire Marshal
- Andrew Henning, Chief of State Fire Training
- Ron Coleman, Chair, Statewide Training and Education Advisory Committee (STEAC)

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- Shawn Tukua, Captain, Los Angeles Fire Department; State Fire Training Coordinator; Area 15 Director, CalChiefs Training Officers
- Rob Wheatley, Division Chief, Director of Fire Training, CAL FIRE Training Center
How to Read a CTS Guide

Overview

A certification training standard (CTS) guide lists the requisite knowledge, skills, and job performance requirements an individual must complete in order to become certified in a specific job function.

It also documents and justifies the OSFM-approved revisions to the certification’s NFPA standard, and identifies where each certification training standard is taught (course plan), tested (skill sheets), and validated (task book).

Individuals aspiring to meet State Fire Training’s certification training standards must do so in accordance with the codes, standards, regulations, policies, and standard operating procedures applicable within their own agency or jurisdiction.

Format

Each certification training standard is comprised of eight sections.

Section Heading
Training standards are grouped by section headings that describe a general category. For example, the Fire Fighter 1 CTS guide includes the following section headings: NFPA Requirements, Fire Department Communications, Fireground Operations, and Preparedness and Maintenance.

Training Standard Title
The training standard title provides a general description of the performance requirement contained within the individual standard.

Authority
The CTS guide references each individual standard with one or more paragraphs of the corresponding National Fire Protection Association (NFPA) Professional Qualifications. This ensures that each fire service function within California’s certification system meets or exceeds NFPA standards.

When California requirements exceed the NFPA standard, the CTS guide cites the Office of the State Fire Marshal as the authority and prints the corresponding information in *italics*.

Job Performance Requirements
This segment includes a written statement that describes a specific job-related task, the items an individual needs to complete the task, and measurable or observable outcomes.
Requisite Knowledge
This segment lists the knowledge that an individual must acquire in order to accomplish the job performance requirement.

Requisite Skills
This segment lists the skills that an individual must acquire in order to accomplish the job performance requirement.

Content Modification
This table documents and justifies any revisions to the NFPA standard that the development or validation cadres make during the development of a CTS guide.

Cross Reference
This table documents where each training standard is taught (course plan), tested (skill sheets), and validated (task book).
Section 1: NFPA Requirements

1-1: Identifying NFPA Requirements

Authority
   • Paragraph 5.1, 5.1.1, 5.1.2
2. Office of the State Fire Marshal

Job Performance Requirement
There is no job performance requirement identified for this training standard.

Requisite Knowledge
1. Describe the responsibilities of the Fire Fighter II in assuming and transferring command within an incident command system
2. Describe how to perform assigned duties in conformance with applicable NFPA standards and other safety regulations and AHJ procedures
3. Identify the role of a Fire Fighter II within the organization

Requisite Skills
1. Determine the need for command
2. Organize and coordinate an incident command system until command is transferred
3. Function within an assigned role in an incident management system

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<td>Changed “management” to “command”.</td>
<td>California uses “command” and not “management”.</td>
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<tr>
<td>RK 2</td>
<td>Added “standards”.</td>
<td>Added for language consistency. NFPA is the organization but was being used to reference a document.</td>
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<tr>
<td>RS 2</td>
<td>Changed “management” to “command”.</td>
<td>California uses “command” and not “management”.</td>
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</table>
Section 2: Fire Department Communications

2-1: Completing a Basic Incident Report

Authority
   - Paragraph 5.2.1

Job Performance Requirement
Complete a basic incident report, given the report forms, guidelines, and information, so that all pertinent information is recorded, the information is accurate, and the report is complete.

Requisite Knowledge
1. Identify content requirements for basic incident reports
2. Identify the purpose and usefulness of accurate reports
3. Identify the consequences of inaccurate reports
4. Describe how to obtain necessary information
5. Identify required coding procedures

Requisite Skills
1. Determine necessary codes
2. Proof reports
3. Operate fire department computers or other equipment necessary to complete reports

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</table>
2-2: Communicating the Need for Team Assistance

Authority
   - Paragraph 5.2.2

Job Performance Requirement
Communicate the need for team assistance, given fire department communications equipment, SOPs, and a team, so that the supervisor is consistently informed of team needs, departmental SOPs are followed, and the assignment is accomplished safely.

Requisite Knowledge
1. Describe SOPs for alarm assignments
2. Describe fire department radio communication procedures

Requisite Skills
1. Operate fire department communications equipment

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Section 3: Fireground Operations

3-1: Extinguishing an Ignitable Liquid Fire

Authority
   • Paragraph 5.3.1
2. Office of the State Fire Marshal

Job Performance Requirement
Extinguish an ignitable liquid fire, operating as a member of a team, given an assignment, an
attack line, PPE, a foam proportioning device, a nozzle, foam concentrates (or suitable
substitute), and a water supply, so that the correct type of foam concentrate is selected for the
given fuel and conditions, a properly proportioned foam stream is applied to the surface of the
fuel to create and maintain a foam blanket, fire is extinguished, reignition is prevented, team
protection is maintained with a foam stream, and the hazard is faced until retreat to safe haven
is reached.

Requisite Knowledge
1. *Describe* methods by which foam prevents or controls a hazard
2. *List* principles by which foam is generated
3. *Identify* causes for poor foam generation and corrective measures
4. *Describe the* difference between hydrocarbon and polar solvent fuels and the concentrates
   that work on each
5. *Identify* the characteristics, uses, and limitations of fire-fighting foams
6. *Describe the* advantages and disadvantages of using fog nozzles versus foam nozzles for
   foam application
7. *Describe* foam stream application techniques
8. *List* hazards associated with foam usage
9. *Describe* methods to reduce or avoid hazards

Requisite Skills
1. Prepare a foam concentrate supply for use
2. Assemble foam stream components
3. Master various foam application techniques
4. Approach and retreat from spills as part of a coordinated team.
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<td>Added “(or suitable substitute)”.</td>
<td>Each California county has different rules dictated by CalEPA. Many counties are unable to use foam during training exercises.</td>
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<td>3-1: Extinguish an Ignitable Liquid Fire</td>
<td>(CTS 3-1)</td>
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</table>
3-2: Controlling a Flammable Gas Cylinder Fire

Authority
   • Paragraph 5.3.3

Job Performance Requirement
Control a flammable gas cylinder fire, operating as a member of a team, given an assignment, a cylinder outside of a structure, an attack line, PPE, and tools, so that crew integrity is maintained, contents are identified, safe havens are identified prior to advancing, open valves are closed, flames are not extinguished unless the leaking gas is eliminated, the cylinder is cooled, cylinder integrity is evaluated, hazardous conditions are recognized and acted upon, and the cylinder is faced during approach and retreat.

Requisite Knowledge
1. Identify characteristics of pressurized flammable gases
2. List elements of a gas cylinder
3. Describe effects of heat and pressure on closed cylinders
4. Describe boiling liquid expanding vapor explosion (BLEVE) signs and effects
5. Describe methods for identifying contents
6. Describe how to identify safe havens before approaching flammable gas cylinder fires
7. Describe water stream usage and demands for pressurized cylinder fires
8. Describe what to do if the fire is prematurely extinguished
9. Identify valve types and their operation
10. Describe alternative actions related to various hazards and when to retreat

Requisite Skills
1. Execute effective advances and retreats
2. Apply various techniques for water application
3. Assess cylinder integrity and changing cylinder conditions
4. Operate control valves
5. Choose effective procedures when conditions change

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3-3: Coordinating an Interior Attack Line

Authority
   • Paragraph 5.3.2
2. Office of the State Fire Marshal

Job Performance Requirement
Coordinate an interior attack line for a team’s accomplishment of an assignment in a structure fire, given attack lines, personnel, PPE, and tools, so that crew integrity is established; attack techniques are selected for the given level of the fire (e.g., attic, grade level, upper levels, or basement); attack techniques are communicated to the attack teams; constant team coordination is maintained; fire growth and development is continuously evaluated; search, rescue, and ventilation requirements are communicated or managed; hazards are reported to the attack teams; and incident command is apprised of changing conditions.

Requisite Knowledge
1. Describe how to select the nozzle and hose for fire attack, given different fire situations
2. Describe how to select adapters and appliances to be used for specific fireground situations
3. Identify dangerous building conditions created by fire and fire suppression activities
4. Describe indicators of building collapse
5. Describe the effects of fire and fire suppression activities on wood, masonry (brick, block, stone), cast iron, steel, reinforced concrete, gypsum wallboard, glass, and plaster on lath
6. Describe coordinated search and rescue and ventilation procedures
7. List indicators of structural instability
8. Describe suppression approaches and practices for various types of structural fires
9. Describe the association between specific tools and special forcible entry needs

Requisite Skills
1. Assemble a team
2. Choose attack techniques for various levels of a fire (e.g., attic, grade level, upper levels, or basement)
3. Evaluate and forecast a fire’s growth and development
4. Select tools for forcible entry
5. Incorporate search and rescue procedures and ventilation procedures in the completion of the attack team efforts
6. Determine developing hazardous building or fire conditions

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<td>RK 6</td>
<td>Added “coordinated”.</td>
<td>Added to clarify the relationship between very different activities.</td>
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</table>
3-4: Protecting Evidence of Fire Cause and Origin

Authority
   - Paragraph 5.3.4
2. Office of the State Fire Marshal

Job Performance Requirement
Protect evidence of fire cause and origin, given a flashlight, PPE, and overhaul tools, so that the evidence is noted and protected from further disturbance until investigators can arrive on the scene.

Requisite Knowledge
1. Identify methods to assess origin and cause
2. List types of evidence
3. Describe means to protect various types of evidence
4. Identify the role and relationship of Fire Fighter IIs, criminal investigators, and insurance investigators in fire investigations
5. Describe the effects and problems associated with removing property or evidence from the scene

Requisite Skills
1. Locate the fire’s origin area
2. Recognize possible causes
3. Protect the evidence

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<td>JPR</td>
<td>Added “PPE”.</td>
<td>Omitted by NFPA but required for JPR.</td>
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Section 4: Rescue Operations

4-1: Extricating a Victim Entrapped in a Motor Vehicle

Authority
   • Paragraph 5.4.1
2. Office of the State Fire Marshal

Job Performance Requirement
Extricate a victim entrapped in a motor vehicle as part of a team, given stabilization and extrication tools, a vehicle, and PPE, so that the vehicle is stabilized, the victim is disentangled without further injury, and hazards are managed.

Requisite Knowledge
1. Describe the fire department’s role at a vehicle accident
2. Describe points of strength and weakness in auto body construction
3. Describe the dangers associated with vehicle components and systems
4. Describe the uses and limitations of hand and power extrication equipment
5. Describe safety procedures when using various types of extrication equipment

Requisite Skills
1. Operate hand and power tools used for forcible entry and rescue as designed
2. Use cribbing and shoring material
3. Use stabilization tools and equipment
4. Choose and apply appropriate techniques for moving or removing vehicle roofs, doors, seats, windshields, windows, steering wheels or columns, and the dashboard

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<td>JPR</td>
<td>Added “a vehicle, and PPE”.</td>
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<tr>
<td>RS 4</td>
<td>Added “seats”.</td>
<td>Seats my also need to be removed to extricate a victim.</td>
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4-2: Assisting Rescue Operation Teams

Authority
   • Paragraph 5.4.2

Job Performance Requirement
Assist rescue operation teams, given standard operating procedures, necessary rescue equipment, and an assignment, so that procedures are followed, rescue items are recognized and retrieved in the time as prescribed by the AHJ, and the assignment is completed.

Requisite Knowledge
1. Describes the fire fighter’s role at a technical rescue operation
2. Identify hazards associated with technical rescue operations
3. Describe types and uses for rescue tools
4. Identify rescue practices and goals

Requisite Skills
1. Identify and retrieve various types of rescue tools
2. Establish public barriers
3. Assist rescue teams as a member of the team when assigned

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Section 5: Fire and Life Safety Initiatives, Preparedness, and Maintenance

5-1: Performing a Fire Safety Survey in an Occupied Structure

Authority
   • Paragraph 5.5.1

Job Performance Requirement
Perform a fire safety survey in an occupied structure, 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.

Requisite Knowledge
1. Describe organizational policy and procedures
2. List common causes of fire and their prevention
3. Describe the importance of a fire safety survey and public fire education programs to fire department public relations and the community
4. Identify referral procedures

Requisite Skills
1. Complete forms
2. Recognize hazards
3. Match findings to preapproved recommendations
4. Effectively communicate findings to occupants or referrals

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<td>(CTS 5-1)</td>
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5-2: Presenting Fire Safety Information to Station Visitors or Small Groups

Authority
   - Paragraph 5.5.2

Job Performance Requirement
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.

Requisite Knowledge
1. Describe parts of informational materials and how to use them
2. Identify basic presentation skills
3. Describe departmental standard operating procedures for giving fire station tours

Requisite Skills
1. Document presentations
2. Use prepared materials

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</table>
5-3: Preparing a Preincident Survey

Authority
   • Paragraph 5.5.3

Job Performance Requirement
Prepare a preincident survey, given forms, necessary tools, and an assignment, so that all required occupancy information is recorded, items of concern are noted, and accurate sketches or diagrams are prepared.

Requisite Knowledge
1. Identify sources of water supply for fire protection
2. Describe the fundamentals of fire suppression and detection systems
3. Identify common symbols used in diagramming construction features, utilities, hazards, and fire protection systems
4. Describe departmental requirements for a preincident survey and form completion
5. Identify the importance of accurate diagrams

Requisite Skills
1. Identify the components of fire suppression and detection systems
2. Sketch the site, buildings, and special features
3. Detect hazards and special considerations to include in the preincident sketch
4. Complete all related departmental forms

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</table>
5-4: Maintaining Power Plants, Power Tools, and Lighting Equipment

Authority
   • Paragraph 5.5.4

Job Performance Requirement
Maintain power plants, power tools, and lighting equipment, given tools and manufacturers’ instructions, so that equipment is clean and maintained according to manufacturer and departmental guidelines, maintenance is recorded, and equipment is placed in a ready state or reported otherwise.

Requisite Knowledge
1. Identify types of cleaning methods
2. Describe correct use of cleaning solvents
3. Describe manufacturer and departmental guidelines for maintaining equipment and its documentation
4. Identify problem-reporting practices

Requisite Skills
1. Select correct tools
2. Follow guidelines
3. Complete recording and reporting procedures
4. Operate power plants, power tools, and lighting equipment

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5-5: Performing an Annual Service Test on Fire Hose

Authority
   • Paragraph 5.5.5

Job Performance Requirement
Perform an annual service test on fire hose, given an apparatus or hose testing device, a marking device, pressure gauges, a timer, record sheets, and related equipment, so that procedures are followed, the condition of the hose is evaluated, any damaged hose is removed from service, and the results are recorded.

Requisite Knowledge
1. Describe procedures for safely conducting hose service testing
2. Identify indicators that dictate any hose be removed from service
3. Describe recording procedures for hose test results

Requisite Skills
1. Operate hose testing equipment and nozzles
2. Record results

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<td>JPR</td>
<td>Changed “a pump” to “an apparatus or hose testing device”.</td>
<td>This is the generic term used in the field and provides more options for testing.</td>
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</tr>
</thead>
<tbody>
<tr>
<td>Fire Fighter 2A, Topic 5-5: Performing an Annual Service Test on a Fire Hose</td>
<td>5-5: Perform an Annual Service Test on a Fire Hose</td>
<td>(CTS 5-5)</td>
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