

# Fire Fighter 2

## (NFPA 1010: Firefighter II)

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### Certification Training Standards Guide (2024)



California Department of Forestry and Fire Protection  
Office of the State Fire Marshal  
State Fire Training

# Fire Fighter 2

## Certification Training Standards Guide (2024)

**Publication Date:** May 2025

This CTS guide utilizes the following NFPA standards to provide the qualifications for State Fire Training's Fire Fighter 2 (2024) curriculum:

- NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)

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 David Baldwin, Battalion Chief (Retired), Sacramento Fire Department; Adjunct Faculty, Sierra College; Adjunct Faculty, American River College.

Published by State Fire Training.

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## Acknowledgements

State Fire Training appreciates the hard work and accomplishments of those who built 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**

- Joe Tyler, Director
- Daniel Berlant, State Fire Marshal
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- Brian Gonsalves, Battalion Chief, Sacramento Metropolitan Fire District; Adjunct Faculty, Sierra College
- Chris Hill, Fire Fighter/Paramedic, San Diego Fire-Rescue Department
- Matthew Jewett, Fire Academy Director, San Diego Miramar College

## Acknowledgments

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- Paul Lindley, Fire Chief, Arrowbear Lake Fire Department; Adjunct Faculty, Mt. San Jacinto College
- Brook Mancinelli, Captain, San Francisco Fire Department
- Jake Miille, Fire Fighter, Chico Fire Department; Adjunct Faculty, Butte College
- Andrew Murtagh, Lieutenant, San Francisco Fire Department; Adjunct Faculty, Fire Technology Program, College of San Mateo
- Brett Pearson, Fire Captain, Orange County Fire Authority
- Kelly Zook, Captain, City of Roseville Fire Department

## How to Read a CTS Guide

### Overview

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

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

Individuals aspiring to meet State Fire Training's curriculum 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 curriculum 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 2 CTS guide includes the following section headings: NFPA Requirements, 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 is shaded in gray.

#### 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 to accomplish the job performance requirement.

**Requisite Skills**

This segment lists the skills that an individual must acquire 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

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.1, 7.1.1, 7.1.2
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

#### Content Modification

Block	Modification	Justification
RK1	Changed “management” to “command”.	California uses “command” and not “management”.
RK2	Added “standards”.	Added for language consistency. NFPA is the organization, but was being used to reference a document.
RS2	Changed “management” to “command”.	California uses “command” and not “management”.

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 1-3</li></ul>	1-1: Organize an Incident Management System (2024)	N/A

## Section 2: Communications

### 2-1: Completing a Basic Incident Report

#### Authority

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.2.1

#### 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

#### Content Modification

Block	Modification	Justification

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 2-1</li></ul>	2-1: Complete a Basic Incident Report (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 1</li></ul>

## 2-2: Communicating the Need for Team Assistance

### Authority

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.2.2

### 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

### Content Modification

Block	Modification	Justification

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 2-2</li></ul>	2-2: Communicate the Need for Team Assistance (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 2</li></ul>

## Section 3: Fireground Operations

### 3-1: Extinguishing an Ignitable Liquid Fire

#### Authority

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.3.1
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.

### Content Modification

Block	Modification	Justification
JPR	Added “(or suitable substitute)”.	Each California county has different rules dictated by CalEPA. Many counties are unable to use foam during training exercises.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 3-1</li></ul>	3-1: Extinguish an Ignitable Liquid Fire (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 3</li></ul>

The training for this standard can be met through the completion of State Fire Training’s Fire Control 4A: Ignitable Liquids and Gases Awareness/Operations (2022).

### 3-2: Controlling a Flammable Gas Cylinder Fire

#### Authority

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.3.4

#### 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

#### Content Modification

Block	Modification	Justification

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 3-2</li></ul>	3-2: Control a Flammable Gas Cylinder Fire (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 4</li></ul>

### 3-3: Coordinating an Interior Attack Line

#### Authority

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.3.2
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 before a 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. Describe suppression approaches and practices for various types of structural fires
8. 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

#### Content Modification

Block	Modification	Justification
RK4	Changed "of" to "before a".	At this level of training, it is important to focus on indicators of an impending collapse.
RK6	Added "coordinated".	Added to clarify the relationship between very different activities.

Fire Fighter 2 – Structure  
Section 3: Fireground Operations

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RK	Deleted “List indicators of structural instability”	Recognizing indicators of structural instability is too advanced a skill for Fire Fighter 2.
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**Cross Reference**

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 3-3</li></ul>	3-3: Coordinate an Interior Fire Attack Line (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 5</li></ul>

### 3-4: Protecting Evidence of Fire Cause and Origin

#### Authority

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.3.5

#### Job Performance Requirement

Protect evidence of fire cause and origin, given a flashlight, structural 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

#### Content Modification

Block	Modification	Justification
JPR	Added "structural PPE".	Omitted by NFPA but required for JPR.

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 3-4</li></ul>	3-4: Protect Evidence of Fire Cause and Origin (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 6</li></ul>

### 3-5: Operating a Thermal Imager (TI)

#### Authority

- NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
- Paragraph 7.3.3

#### Job Performance Requirement

Operate a thermal imager (TI), given a TI, SOPs (if applicable), PPE, and an assignment, so that victims are located in conditions of obscured visibility, hot spots are identified in a structure, overhaul is completed, and the liquid level in a container is determined.

#### Requisite Knowledge

1. Describe TI operation procedures and limitations of TI

#### Requisite Skills

1. Demonstrate the use of a TI
2. Accurately interpret TI data to victims, fire, hot spots, and liquid levels in containers

#### Content Modification

Block	Modification	Justification
JPR	Added “(if applicable)”.	Not every fire service has an SOP.

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 3-5</li></ul>	3-5: Operate a Thermal Imager (TI) (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 22</li></ul>

## Section 4: Rescue Operations

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

#### Authority

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.4.1

#### 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

#### Content Modification

Block	Modification	Justification
JPR	Added "a vehicle, and PPE".	Omitted by NFPA but required to complete JPR.
RS 4	Added "seats".	Seats may also need to be removed to extricate a victim.

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 4-1</li></ul>	4-1: Extricate a Victim Entrapped in a Vehicle Fire (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 7</li></ul>

The training for this standard can be met through the completion of State Fire Training's Common Passenger Vehicle Rescue Technician course.

## 4-2: Assisting Rescue Operation Teams

### Authority

1. NFPA 11010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.4.2

### 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

### Content Modification

Block	Modification	Justification

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 4-2</li></ul>	4-2: Assist a Rescue Operations Team (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 8</li></ul>

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

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

#### Authority

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.5.1

#### 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 California Fire Code (CFC) or local ordinances
4. Effectively communicate findings to responsible party or fire code official

#### Content Modification

Block	Modification	Justification
RS3	Changed “preapproved recommendations” to “California Fire Code (CFC) or local ordinances”.	It is important to be as specific as possible in this guidance.
RS4	Changed “occupants or referrals” to “responsible party or fire code official”.	This revision is inclusive of all occupancy types.

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 5-1</li></ul>	5-1: Perform a Fire Safety Survey in an Occupied Structure (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 9</li></ul>

**5-2: Presenting Fire Safety Information to Station Visitors or Small Groups****Authority**

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.5.2

**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

**Content Modification**

Block	Modification	Justification

**Cross Reference**

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 5-2</li></ul>	5-2: Present Fire Safety Information (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 10</li></ul>

### 5-3: Preparing a Preincident Survey

#### Authority

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.5.3

#### 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

#### Content Modification

Block	Modification	Justification

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 5-3</li></ul>	5-3: Prepare a Preincident Survey (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 11</li></ul>

## 5-4: Maintaining Power Plants, Power Tools, and Lighting Equipment

### Authority

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.5.4

### 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

### Content Modification

Block	Modification	Justification

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 5-4</li></ul>	5-4: Maintain Power Plants, Tools, and Equipment (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 12</li></ul>

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

### Authority

1. NFPA 1010: Standard on Professional Qualifications for Firefighters (2024)
  - Paragraph 7.5.5

### 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

### Content Modification

Block	Modification	Justification
JPR	Changed “a pump” to “an apparatus or hose testing device”.	This is the generic term used in the field and provides more options for testing.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 2A: Structure (2024) <ul style="list-style-type: none"><li>• Topic 5-5</li></ul>	5-5: Perform an Annual Service Test on a Fire Hose (2024)	Fire Fighter 1 and 2 (2024) Certification Task Book <ul style="list-style-type: none"><li>• JPR 13</li></ul>