

Fire Fighter 1

(NFPA 1001: Fire Fighter 1)
(NFPA 470: HazMat/WMD Awareness and Operations)
(NFPA 1140: Wildland Firefighter 1)

Certification Training Standards Guide (2019)



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

Fire Fighter 1

Certification Training Standards Guide (2019)

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

- NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
- NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
- NFPA 1140: Standard for Wildland Fire Protection (2022)

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).

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Revised to align Wildland Fire Fighter 1 content with the release of NFPA 1140 (2022) and Hazardous Materials/WMD content with the release of NFPA 470 (2022).

- Allison L. Shaw, Editor, California State University, Sacramento

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 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 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).

Fire Fighter 1 - Structure

Section 1: Structure Fire Fighter Duties

1-1: Role of the Fire Fighter 1

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.1.1, 4.1.2

Job Performance Requirement

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

Requisite Knowledge

1. *Describe* the organization of the fire department
2. *Describe* the role of the Fire Fighter 1 in the organization
3. *Describe* the mission of fire service
4. *Describe* the fire department's standard operating procedures (SOPs) and rules and regulations as they apply to the Fire Fighter 1
5. *Describe* the value of fire and life safety initiatives in support of the fire department mission and to reduce fire fighter line-of-duty injuries and fatalities
6. *Identify* the role of other agencies as they relate to the fire department
7. *Identify* the signs and symptoms of behavioral and emotional distress
8. *Identify* aspects of the fire departments' member assistance program
9. *Describe* the importance of physical fitness and a healthy lifestyle to the performance of the duties of a fire fighter
10. *Define* the critical aspects of NFPA 1500

Requisite Skills

1. Don personal protective clothing, doff personal protective clothing, perform field reduction of contaminants, and prepare for reuse
2. Hoist tools and equipment using ropes and the correct knot
3. Locate information in departmental documents and standards or code materials

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-------------------------------------|-------------------------------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 1-3: RK1, RK2, RK3, RK4, RK5, RK6, RS3• Topic 2-2: RK9, RK10• Topic 2-3: RK7, RK8• Topic 2-4: RS1• Topic 4-1: RS2 | Cognitive only – no testable skills | Cognitive only – no testable skills |

1-2: Inspecting and Maintaining Personal Protective Equipment

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Inspect and maintain structural personal protective equipment (PPE), given PPE, so that PPE is inspected, maintained, and returned to a ready state.

Requisite Knowledge

1. Identify the components of structural PPE
2. Explain the importance of standards for structural PPE
3. Describe how improper usage or maintenance can compromise PPE effectiveness
4. Describe proper method for inspecting, cleaning, and maintaining structural PPE
5. Identify when to remove PPE from service
6. Describe how to remove PPE from service

Requisite Skills

1. Inspect structural PPE
2. Clean structural PPE
3. Maintain structural PPE

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| CTS | Added a certification training standard. | NFPA 1001 does not include a designated JPR for inspecting and maintaining PPE but it is a Cal/OSHA requirement: 8 CCR § 3401(b)(4). |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-4 | 1-7: Doff, Inspect, and Prepare Structural PPE for Reuse | (CTS 1-2) |

1-3: Inspecting and Maintaining Self-Contained Breathing Apparatus

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Inspect and maintain self-contained breathing apparatus (SCBA), given SCBA, so that SCBA is inspected, maintained, and returned to a ready state.

Requisite Knowledge

1. *Identify the components of SCBA*
2. *Explain the importance of standards for SCBA*
3. *Describe how improper fit, usage, or maintenance can compromise SCBA effectiveness*
4. *Identify the proper method for inspecting, cleaning, and maintaining SCBA*
5. *Identify when to remove SCBA from service*
6. *Describe how to remove SCBA from service*

Requisite Skills

1. *Inspect SCBA*
2. *Clean SCBA*
3. *Maintain SCBA*

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| CTS | Added a certification training standard. | NFPA 1001 does not include a designated JPR for inspecting and maintaining SCBA but it is a Cal/OSHA requirement: 8 CCR § 5144(k). |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-------------------|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-5 | 1-3: Inspect SCBA | (CTS 1-3) |

1-4: Donning Structural Personal Protective Equipment

Authority

- Office of the State Fire Marshal

Job Performance Requirement

Don structural personal protective equipment (PPE), given PPE, so the PPE is donned in 60 seconds or less and all elements of the PPE ensemble are worn in accordance with manufacturer guidelines.

Requisite Knowledge

- Describe the protection provided by structural PPE
- Describe the limitations of structural PPE
- Identify manufacturer guidelines for correct PPE use

Requisite Skills

1. Don PPE

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| CTS | Added a certification training standard. | NFPA 1001 does not include a designated JPR for donning PPE. OSFM uses 60 seconds as the industry standard. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-------------------------|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-4 | 1-4: Don Structural PPE | (CTS 1-4) |

1-5: Donning Self-Contained Breathing Apparatus

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Don self-contained breathing apparatus (SCBA), given SCBA, so that the SCBA is donned in 60 seconds or less and all elements of the SCBA are worn and operated in accordance with manufacturer guidelines.

Requisite Knowledge

1. *Identify conditions that require respiratory protection*
2. *Describe the protection provided by SCBA*
3. *Describe the uses and limitations of SCBA*
4. *Describe potential long-term consequences of exposure to products of combustion*
5. *Identify manufacturer guidelines for correct SCBA use*
6. *Describe operational inspection procedures for SCBA*

Requisite Skills

1. *Don SCBA*
2. *Perform operational inspection of SCBA*

Content Modification

| Block | Modification | Justification |
|-------|---------------------------------|--|
| CTS | Added a certification standard. | NFPA 1001 does not include a designated JPR for donning SCBA. OSFM uses 60 seconds as the industry standard. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|----------------|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-5 | 1-5: Don SCBA | (CTS 1-5) |

1-6: Doffing Self-Contained Breathing Apparatus

Authority

- Office of the State Fire Marshal

Job Performance Requirement

Doff self-contained breathing apparatus (SCBA), given SCBA, so that SCBA is removed in accordance with manufacturer guidelines and returned to a ready state.

Requisite Knowledge

1. *Identify when it is safe to doff respiratory protection*
2. *Identify manufacturer guidelines for doffing SCBA*
3. *Identify AHJ policies and procedures for doffing SCBA*

Requisite Skills

1. *Doff SCBA*
2. *Return SCBA to a ready state*

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| CTS | Added a certification training standard. | NFPA 1001 does not include a designated JPR for doffing SCBA but it is a California requirement: 8 CCR § 5144(k). |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|----------------|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-5 | 1-6: Doff SCBA | (CTS 1-6) |

1-7: Doffing Personal Protective Equipment

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Doff structural personal protective equipment (PPE), given PPE, so that PPE is removed in accordance with manufacturer guidelines and returned to a ready state.

Requisite Knowledge

1. Identify when it is safe to doff PPE
2. Identify manufacturer guidelines for doffing PPE
3. Identify AHJ policies and procedures for doffing PPE

Requisite Skills

1. Doff PPE
2. Return PPE to a ready state

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| CTS | Added a certification training standard. | NFPA 1001 does not include a designated JPR for doffing PPE. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-4 | 1-7: Doff, Inspect, and Prepare Structural PPE for Reuse | (CTS 1-7) |

1-8: Doffing Self-Contained Breathing Apparatus and Personal Protective Equipment for Gross Decontamination

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Doff self-contained breathing apparatus (SCBA) and structural personal protective equipment (PPE), given SCBA and PPE, so that SCBA and PPE are removed to reduce contaminant exposure; SCBA and PPE undergo gross decontamination and are tagged and transported; and fire fighter conducts physical decontamination as soon as possible, in order to reduce exposure to field contaminants.

Requisite Knowledge

1. Identify the purpose and benefits of gross decontamination
2. Identify parts of the body most susceptible to contaminate exposure
3. Identify common routes of exposure
4. Describe how to conduct onsite gross decontamination
5. Describe how to doff SCBA and PPE to reduce exposure to field contaminants
6. Describe how to tag and transport contaminated SCBA and PPE
7. Identify personal decontamination processes

Requisite Skills

1. Don and doff SCBA and PPE

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| CTS | Added a certification training standard. | NFPA 1001 does not include a designated JPR for PPE gross decontamination. Added to incorporate IAFF Cancer Awareness and Prevention Initiative to increase awareness and promote cultural change. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--------------------------------|--|-----------|
| Fire Fighter 1A • Topic 2-7 | 1-8: Doff SCBA and PPE for Gross Decontamination | (CTS 1-8) |

1-9: Identifying Confined Spaces

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Identify a permit-required and non-permit-required confined space, given an incident and a confined space, so that hazards associated with confined spaces are identified, equipment is secured, and incident management operations and communications are followed, in accordance with state regulations and industry standards.

Requisite Knowledge

1. *Identify regulations and standards applicable to confined space incidents*
2. *Describe the history and dangers of confined space incidents*
3. *Describe how to identify a confined space*
4. *Describe how to identify a permit-required confined space*
5. *Describe how to recognize hazards*
6. *Describe how to isolate hazards and minimize risks*
7. *Describe how to recognize the need for and manage support resources*
8. *Describe how to ensure that resource application fits the operational requirements*
9. *Describe how to recognize the need for technical rescue resources*
10. *Describe how to search areas immediately adjacent to the space*
11. *Describe how to establish victim communication*
12. *Describe how to determine a victim survivability profile*
13. *Describe how to evaluate a non-entry rescue*
14. *Describe how to perform a non-entry rescue*
15. *Describe the positions and components of a permit-required confined space entry*
16. *Describe Cal/OSHA confined space operational positions and responsibilities*

Requisite Skills

1. *None required*

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| CTS | Added a certification training standard. | California state law (8 CCR § 5157-5158) not captured by NFPA 1001. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|------------------------------------|-----------|
| CSRA: Confined-Space Rescue Awareness (2018) | Covered in CSRA training materials | (CTS 1-9) |

Fire Fighter 1 - Structure

Section 1: Structure Fire Fighter Duties

The training for this standard can be met through the completion of State Fire Training's Confined Space Rescue Awareness course.

1-10: Operating within the Incident Command System

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Operate within the Incident Command System (ICS), given an incident and an incident action plan, so that organizational elements are recognized, positions and responsibilities are identified, facility needs are met, and the incident is managed, in accordance with state and federal regulations.

Requisite Knowledge

1. *Explain the principles and basic structure of the Incident Command System (ICS)*
2. *Describe the NIMS management characteristics that are the foundation of the ICS*
3. *Describe the ICS functional areas and the roles of the Incident Commander and Command Staff*
4. *Describe the General Staff roles within ICS*
5. *Identify how NIMS management characteristics apply to ICS for a variety of roles and discipline areas*

Requisite Skills

1. *None required*

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| CTS | Added a certification training standard. | This California state law is not captured by NFPA 1001: 19 CCR § 2403. See also: Homeland Security Presidential Directive, HSPD-5, Section 502, of the Homeland Security Act, 6 U.S.C. §§ 101 et. seq. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-----------------------------------|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-1 | Covered in other training modules | (CTS 2-1) |

The training for this standard can be met through the completion of FEMA's IS-100: Introduction to the Incident Command System and IS-700: An Introduction to the National Incident Management System.

1-11: Fire Fighter Physical Health and Safety

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Identify common fire fighter health and safety issues, given an assignment, in order to avoid or mitigate common accidents and injuries, maintain a healthy and physically fit lifestyle, and conduct life safety initiatives in the line of duty.

Requisite Knowledge

1. *List common types of accidents and injuries and identify their causes*
2. *Describe how physical fitness and a healthy lifestyle correspond to fire fighter performance*
3. *Define critical aspects of NFPA 1500: Standard on Fire Department Occupational Safety and Health Program (current edition)*
4. *Describe how fire and life safety initiatives support a fire department's mission to reduce fire fighter line-of-duty injuries and deaths*

Requisite Skills

1. *None required*

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| CTS | Added a certification training standard. | Application of this behavior reduces fire fighter injury, illness, and fatalities. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-------------------------------------|------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-2 | Cognitive only – no testable skills | (CTS 1-11) |

1-12: Behavioral Health

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Describe common sources and impacts of stress and demonstrate practices that contribute to resilience, given an assignment in the fire service, in accordance with current research and best practices.

Requisite Knowledge

1. Define types of stress
2. Describe signs and symptoms of stress
3. Describe reactions to stress
4. Identify common stressors found in various situations and environments
5. Describe physiological and emotional impacts of stress
6. Describe behaviors associated with unmanaged stress
7. Describe the role of nutrition, sleep, exercise, relaxation techniques, and rest in mediating and mitigating stress
8. Describe healthy and unhealthy coping mechanisms
9. Identify potential consequences of unhealthy coping mechanisms
10. Describe the role of communication in coping with stress
11. Describe behavioral health resources available through an AHJ
12. Describe behavioral health resources available outside of the fire service

Requisite Skills

1. Demonstrate the self-assessment process
2. Demonstrate relaxation techniques

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| CTS | Added a certification training standard. | Added to address critical health and safety concerns facing the fire service not covered by NFPA standards. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-------------------------------------|-------------------------------------|
| Fire Fighter 1A <ul style="list-style-type: none"> • Topic 2-3 | Cognitive only – no testable skills | Cognitive only – no testable skills |

1-13: Cancer Awareness

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Demonstrate best practices to minimize cancer exposure and risk, given an assignment in the fire service so that the types, prevalence of, and common causes of cancer in the fire service are described, exposure to carcinogenic chemicals is described, and cancer exposure and risk are mitigated in accordance with current research and best practices.

Requisite Knowledge

1. Describe cancer prevalence in the fire service
2. Define "carcinogenic agent"
3. Identify risk factors specific to the fire service
4. Identify risk or protective factors specific to lifestyle
5. Identify exposure sources
6. Identify common states of carcinogenic chemicals
7. Identify common categories of carcinogenic chemicals
8. Identify exposure routes
9. Identify common activities, objects, and locations associated with exposure
10. Identify modifiable and unmodifiable risk factors
11. Define "exclusion (hot) zones," "contamination reduction (warm) zones," and "support (cold) zones"
12. Identify best practices that minimize contaminant exposure and risk during fire suppression, overhaul, mop-up, and post-incident activities
13. Identify best practices for PPE that minimize contaminant exposure and risk
14. Identify best practices for equipment that minimize contaminant exposure and risk
15. Identify best practices that minimize contaminant exposure and risk at the station
16. Identify best practices that minimize contaminant exposure and risk at home

Requisite Skills

1. Demonstrate best practices that minimize contaminant exposure and risk during fire suppression, overhaul, mop-up, and post-incident activities
2. Demonstrate best practices for PPE that minimize contaminant exposure and risk
3. Demonstrate best practices for equipment that minimize contaminant exposure and risk
4. Demonstrate best practices that minimize contaminant exposure and risk at the station
5. Demonstrate best practices that minimize contaminant exposure and risk at home
6. Document all exposures, injuries, and illnesses within AHJ reporting system

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| CTS | Added a certification training standard. | Added to address critical health and safety concerns facing the fire service not covered by NFPA standards. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-------------------------------------|-------------------------------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-4 | Cognitive only – no testable skills | Cognitive only – no testable skills |

Section 2: Fire Department Communications

2-1: Initiating the Response to a Reported Emergency

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.2.1
2. Office of the State Fire Marshal

Job Performance Requirement

Initiate the response to a reported emergency, given the report of an emergency, fire department SOPs, and communications equipment, so that all necessary information is obtained, communications equipment is operated correctly, and the information is relayed promptly and accurately to the dispatch center.

Requisite Knowledge

1. *Explain* the procedures for reporting an emergency
2. *Identify* departmental SOPs for taking and receiving alarms, radio codes, or procedures
3. *List* information needs of dispatch center
4. *Identify different types of fire department communications equipment*

Requisite Skills

1. Operate fire department communications equipment
2. Relay information
3. Record information

Content Modification

| Block | Modification | Justification |
|-------|----------------------------|---|
| RK4 | Added knowledge component. | The JPR requires the candidate to have equipment and use it correctly, but doesn't include any knowledge of it. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 3-2 | 2-1: Initiate a Response to an Emergency | (CTS 2-1) |

2-2: Receiving a Telephone Call

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.2.2

Job Performance Requirement

Receive a telephone call, given a fire department phone, so that procedures for answering the phone are used and the caller's information is relayed.

Requisite Knowledge

1. *Describe* fire department procedures for answering non-emergency telephone calls

Requisite Skills

1. Operate fire station telephone and intercom equipment

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-------------------------------|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 3-1 | 2-2: Receive a Telephone Call | (CTS 2-2) |

2-3: Transmitting and Receiving Messages via Radio

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.2.3
2. Office of the State Fire Marshal

Job Performance Requirement

Transmit and receive messages via the fire department radio, given a fire department radio and *standard* operating procedures, so that the information is accurate, complete, clear, and relayed within the time established by the AHJ.

Requisite Knowledge

1. *Describe* departmental radio procedures and etiquette for routine *radio* traffic, emergency *radio* traffic, and emergency *radio* evacuation signals
2. *Identify types and operations of fire department radios*

Requisite Skills

1. Operate radio equipment
2. *Identify the differences* between routine and emergency *radio* traffic

Content Modification

| Block | Modification | Justification |
|-------|---|--|
| JPR | Added "standard". | Added for consistency with other instances within NFPA 1001. |
| RK1 | Added "radio" three times. | Added to clarify that this only covers the radio aspects of these items. |
| RK2 | Added knowledge component. | The JPR requires the candidate to have a radio and use it correctly, but doesn't include any knowledge of types and use. |
| RS2 | Changed "discriminate" to "identify the differences". Added "radio". | SFT uses neutral language whenever possible without changing content or context. Added "radio" to clarify that this only covers the radio aspect of emergency traffic. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--------------------------------------|-----------|
| Fire Fighter 1A <ul style="list-style-type: none"> • Topic 3-3 | 2-3: Operate a Fire Department Radio | (CTS 2-3) |

2-4: Activating an Emergency Call of Assistance

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.2.4

Job Performance Requirement

Activate an emergency call for assistance, given vision-obscured conditions, PPE, and department SOPs, so that the fire fighter can be located and rescued.

Requisite Knowledge

1. *Describe different* personnel accountability systems
2. *Describe* emergency communication procedures
3. *Describe* emergency evacuation methods

Requisite Skills

1. Initiate an emergency call for assistance in accordance with the AHJ's procedures
2. Use other methods of emergency calls for assistance

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|---|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 6-1 | 3-5: Activate an Emergency Call and Exit a Hazardous Area | (CTS 2-4) |

Section 3: Fire Ground Operations

3-1: Using Self-contained Breathing Apparatus During Emergency Operations

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.1
2. Office of the State Fire Marshal

Job Performance Requirement

Use self-contained breathing apparatus (SCBA) during emergency operations, given SCBA and other PPE, so that the SCBA is correctly donned, 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.

Requisite Knowledge

1. *Identify* conditions that require respiratory protection
2. *Describe* the uses and limitations of SCBA
3. *Identify* the components of SCBA
4. *Describe different* donning procedures
5. *Describe different* breathing techniques
6. *Describe how to monitor and manage air consumption*
7. *Describe* indications for and emergency procedures used with SCBA
8. *Identify* physical requirements of the SCBA wearer

Requisite Skills

1. Demonstrate different controlled breathing techniques
2. Replace SCBA air cylinders
3. Use SCBA to exit through restricted passages
4. Monitor and manage air consumption
5. Initiate and complete emergency procedures in the event of SCBA failure or air depletion
6. Complete donning procedures

Content Modification

| Block | Modification | Justification |
|-------|----------------------------|---------------------------------|
| RK6 | Added knowledge component. | Added to comply with NFPA 1404. |
| RS4 | Added skills component. | Added to comply with NFPA 1404. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|------------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-5: RK1, RK2, RK3, RK4, RS6• Topic 2-6: RK5, RK6, RK7, RK8, RS1, RS2, RS3, RS4, RS5 | 3-1a: Replace an SCBA Air Cylinder 3-1b: Use SCBA During Emergency Operations | (CTS 3-1) |

3-2: Responding on an Apparatus to an Emergency Scene

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.2

Job Performance Requirement

Respond on apparatus to an emergency scene, given *an apparatus*, personal protective clothing and other necessary PPE, 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.

Requisite Knowledge

1. *Describe* mounting and dismounting procedures for riding fire apparatus
2. *Identify* hazards and ways to avoid hazards associated with riding apparatus
3. *Describe* prohibited practices
4. *Identify different* types of department PPE and their means for usage

Requisite Skills

1. Use each piece of provided safety equipment

Content Modification

| Block | Modification | Justification |
|-------|-----------------------|--|
| JPR | Added "an apparatus". | Not included in the given but required to complete the task. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-8 | 3-2: Respond to an Emergency Scene on an Apparatus | (CTS 3-2) |

3-3: Establishing and Operating in Work Areas at Emergency Scenes

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.3

Job Performance Requirement

Establish and operate in work areas at emergency scenes, given *an apparatus, personal* protective equipment, traffic and scene control devices, structure fire and roadway emergency scenes, traffic hazards and downed electrical wires, photovoltaic power systems, battery storage systems, an assignment, and SOPs, 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.

Requisite Knowledge

1. *Identify* potential hazards involved in operating on emergency scenes including vehicle traffic, utilities, and environmental conditions
2. *Describe* proper procedures for *mounting and* dismounting apparatus in traffic
3. *Describe* procedures for safe operation at emergency scenes
4. *Identify* the protective equipment available for members' safety on emergency scenes and work zone designations

Requisite Skills

1. Use personal protective clothing
2. Deploy traffic and scene control devices
3. Dismount apparatus
4. Operate in the protected work areas as directed

Content Modification

| Block | Modification | Justification |
|-------|-----------------------|--|
| JPR | Added "an apparatus". | Not included in the given but required to complete the task. |
| JPR | Added "personal". | Added for consistency with other references to PPE. |
| RK2 | Added "mounting and". | Added for consistency with other standards. Mounting is equally as important as dismounting. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|------------------------------------|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 2-9 | 3-3: Operate at an Emergency Scene | (CTS 3-3) |

3-4: Forcing Entry into a Structure

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.4

Job Performance Requirement

Force entry into a structure, given PPE, tools, *a prop or structure with doors, walls, and windows*, 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.

Requisite Knowledge

1. *Describe* basic construction of typical doors, windows, and walls within the department's community or service area
2. *Describe types and uses of hand and power tools used for forcible entry*
3. *Describe* the operation of doors, windows, and locks
4. *Identify* the dangers associated with forcing entry through doors, windows, and walls

Requisite Skills

1. Transport and operate hand and power tools
2. Force entry through doors, windows, and walls using assorted methods and tools

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| JPR | Added "a prop or structure with doors, walls, and windows" | Required to complete the JPR but not included in the given. |
| RK2 | Added knowledge component. | Not included in NFPA 1001 but required to complete RS 1. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|-----------------------------------|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 5-1: RK1• Topic 5-10: RK1, RK2, RK3, RK4 , RS1, RS2 | 3-4: Force Entry into a Structure | (CTS 3-4) |

3-5: Exiting a Hazardous Area

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.5

Job Performance Requirement

Exit a hazardous area as a team, given vision-obscured conditions *and PPE*, so that a safe haven is found before exhausting the air supply, others are not endangered, and the team integrity is maintained.

Requisite Knowledge

1. *Describe* personnel accountability systems
2. *Describe* communication procedures
3. *Describe* emergency evacuation methods
4. *Define* what constitutes a safe haven
5. *Identify* elements that create or indicate a hazard
6. *Identify* emergency procedures for loss of air supply

Requisite Skills

1. Operate as a team member in vision-obscured conditions
2. Locate and follow a guide line
3. Conserve air supply
4. Evaluate areas for hazards
5. Identify a safe haven

Content Modification

| Block | Modification | Justification |
|-------|--------------------------------------|---|
| JPR | Added "and PPE". | Not included in NFPA 1001 but required for fire fighter survival. |
| RS 2 | Changed "guideline" to "guide line". | Changed to clarify meaning. NFPA 1001 used the wrong word. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|---|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 6-1 | 3-5: Activate an Emergency Call and Exit a Hazardous Area | (CTS 3-5) |

3-6: Setting Up, Mounting, Ascending, Dismounting, and Descending Ground Ladders

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.6
2. Office of the State Fire Marshal

Job Performance Requirement

Set up, mount, ascend, dismount, and descend ground ladders, given single and extension ladders, an assignment, *PPE*, 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.

Requisite Knowledge

1. *Identify the uses of ground ladders*
2. *Identify the types, parts, and construction features of a ground ladder*
3. *Identify types of lifts, carries, and raises*
4. *Describe how to secure ground ladders*
5. *Describe how to operate from ground ladders*
6. *Describe hazards associated with setting up ladders*
7. *Define what constitutes a stable foundation for ladder placement*
8. *Identify different angles for various tasks*
9. *Describe climbing techniques*
10. *Describe safety limits to the degree of angulation*
11. *Describe what constitutes a reliable structural component for top placement*

Requisite Skills

1. *Lift and carry ladders*
2. *Raise and move ladders*
3. *Extend ladders*
4. *Lock flies*
5. *Secure ground ladders*
6. *Determine that a wall and roof will support the ladder*
7. *Judge extension ladder height requirements*
8. *Place the ladder to avoid obvious hazards*
9. *Mount, ascend, dismount, and descend the ladder*
10. *Demonstrate proper climbing techniques*
11. *Operate from ground ladders*

Content Modification

| Block | Modification | Justification |
|-------|--------------------------------|---|
| JPR | Added "PPE". | Not included in NFPA 1001 but required for fire fighter survival. |
| RK1 | Added knowledge component. | Not included in NFPA 1001 but needed for proper ladder use. |
| RK2 | Added to a knowledge component | Not included in NFPA 1001 but needed for proper ladder use. |
| RK3 | Added knowledge component. | Not included in NFPA 1001 but needed for proper ladder use. |
| RK4 | Added knowledge component. | Not included in NFPA 1001 but needed for proper ladder use. |
| RK5 | Added knowledge component. | Not included in NFPA 1001 but needed for proper ladder use. |
| RS1 | Added "Lift and". | Changed to match RK3. |
| RS2 | Added "and move". | Not included in NFPA 1001 but needed for proper ladder use. |
| RS5 | Added skills component. | Added to correspond with RK4. |
| RS10 | Added skills component. | This is a CalOSHA requirement. |
| RS11 | Added skills component. | Added to correspond with RK6. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|---|-----------|
| Fire Fighter 1A <ul style="list-style-type: none"> • Topic 5-8: RK1, RK2 • Topic 5-9: RK3, RK4, RK5, RK6, RK7, RK8, RK9, RK10, RK11, RS1, RS2, RS3, RS4, RS5, RS6, RS7, RS8, RS9, RS10, RS11 | 3-6: Lift, Carry, and Raise a Ground Ladder | (CTS 3-6) |

3-7: Attacking a Passenger Vehicle Fire

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.7
2. Office of the State Fire Marshal

Job Performance Requirement

Attack a passenger vehicle fire operating as a member of a team, given personal protective equipment (PPE), *self-contained breathing apparatus (SCBA)*, an attack line (*1½ inch or larger*), hand tools, and *a passenger vehicle or prop*, 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.

Requisite Knowledge

1. *Describe* principles of fire streams as they relate to fighting automobile fires
2. *Identify* precautions to be followed when advancing hose lines toward an automobile
3. *List* observable results that a fire stream has been properly applied
4. *Identify alternative fuels and the hazards associated with them*
5. *Describe* dangerous conditions created during an automobile fire
6. *Describe* common types of accidents or injuries related to fighting automobile fires and how to avoid them
7. *Describe* how to access locked passenger, trunk, and engine compartments
8. *Identify methods for overhauling an automobile*

Requisite Skills

1. Identify automobile fuel types
2. Assess and control fuel leaks
3. Open, close, and adjust the flow and pattern on nozzles
4. Apply water for maximum effectiveness while maintaining flash fire protection
5. Advance 1½ in. (38 mm) or larger diameter attack lines
6. Expose hidden fires by opening all automobile compartments

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| JPR | Added “self-contained breathing apparatus (SCBA)”. | CalOSHA requirement for IDLH environments. |
| JPR | Added “(1½ inch or larger)”. | Specified by RS 5. |
| JPR | Added “a passenger vehicle or prop”. | Not included in the given but required to complete the JPR. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--------------------------------------|------------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 7-2 | 3-7: Attack a Passenger Vehicle Fire | (CTS 3-7) |

3-8: Extinguishing Fires in Exterior Class A Materials

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.8
2. Office of the State Fire Marshal

Job Performance Requirement

Extinguish fires in exterior Class A materials, given fires in stacked or piled *materials*, small unattached structures, or storage containers that can be fought from the exterior, attack lines, hand tools and master stream devices, *PPE*, 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.

Requisite Knowledge

1. *Describe* types of attack lines and water streams appropriate for attacking stacked, piled materials, and outdoor fires
2. *Identify* dangers — such as collapse — associated with stacked and piled materials
3. *Describe* various extinguishing agents and their effect on different material configurations
4. *Identify* tools and methods to use in breaking up various types of materials
5. *Describe* difficulties related to complete extinguishment of stacked and piled materials
6. *Identify* water application methods for exposure protection and fire extinguishment
7. *Describe* dangers such as exposure to toxic or hazardous materials associated with storage building and container fires
8. *Identify* obvious signs of origin and cause
9. *List* techniques for the preservation of fire cause evidence

Requisite Skills

1. Recognize inherent hazards related to the material's configuration
2. Operate handlines or master streams
3. Break up material using hand tools and water streams
4. Operate hoselines and other water application devices
5. Evaluate and modify water application for maximum penetration
6. Search for and expose hidden fires
7. Assess patterns for origin determination
8. Evaluate for complete extinguishment

Content Modification

| Block | Modification | Justification |
|-------|-------------------------------|--|
| JPR | Added "PPE". | Not included in NFPA 1001 but required for fire fighter survival. |
| JPR | Added "materials" and commas. | As originally written "stacked or piled" modified "unattached structure or storage container". Revised to clarify meaning. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|---|-----------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 7-1 | 3-8a: Operate a Portable Master Stream 3-8b: Extinguish an Exterior Fire | (CTS 3-8) |

3-9: Conducting a Search and Rescue in a Structure

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.9
2. Office of the State Fire Marshal

Job Performance Requirement

Conduct a search and rescue in a structure operating as a member of a team, given an assignment, obscured vision conditions, personal protective equipment (PPE), *self-contained breathing apparatus (SCBA)*, a flashlight, forcible entry tools, hose lines or *guide lines*, a *thermal imaging device*, 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 members' safety — including respiratory protection — is not compromised.

Requisite Knowledge

1. *Describe how to use forcible entry tools during rescue operations*
2. *Describe how to use thermal imaging devices and other search tools*
3. *Describe how to use ladder operations for rescue*
4. *Identify the psychological effects of operating in obscured conditions and ways to manage them*
5. *Describe methods to determine if an area is tenable*
6. *Describe primary and secondary search techniques*
7. *Identify team members' roles and goals*
8. *Describe methods and indicators used to locate victims*
9. *Describe victim removal methods (including various carries)*
10. *Identify considerations related to respiratory protection*

Requisite Skills

1. Use SCBA to exit through restricted passages
2. Set up and use different types of ladders for various types of rescue operations
3. Rescue a fire fighter with functioning respiratory protection
4. Rescue a fire fighter whose respiratory protection is not functioning
5. Rescue a person who has no respiratory protection
6. Assess areas to determine tenability

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| JPR | Added “self-contained breathing apparatus (SCBA)”. | Required for RK1 but not included in the given. |
| JPR | Added “or guide lines”. | This is an additional option for orientation. |
| JPR | Added “a thermal imaging device”. | This is a recognized industry standard not included in NFPA 1001. |
| RK2 | Added knowledge component. | This is a recognized industry standard not included in NFPA 1001. |
| RK8 | Revised without changing intent. | Revised for clarification. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|---|-----------|
| Fire Fighter 1A <ul style="list-style-type: none"> • Topic 5-11 | 3-9a: Search for and Rescue a Victim with no Respiratory Protection 3-9b: Rescue a Fire Fighter 3-9c: Use a Ladder for Rescue | (CTS 3-9) |

3-10: Attacking an Interior Structure Fire

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.10
2. Office of the State Fire Marshal

Job Performance Requirement

Attack an interior structure fire operating as a member of a team, given an attack line (*1½ inch or larger*), *pumping apparatus, established water supply*, ladders when needed, personal protective equipment, *self-contained breathing apparatus (SCBA)*, 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.

Requisite Knowledge

1. *Identify types, designs, and uses of fire hoses*
2. *Identify fittings, tools, and appliances*
3. *Describe common building materials and construction types*
4. *Identify the principles of fire streams*
5. *Describe types, design, operation, nozzle pressure effects, and flow capabilities of nozzles*
6. *Identify precautions to be followed when advancing hoselines to a fire*
7. *Describe observable results that a fire stream has been properly applied*
8. *Identify dangerous building conditions created by fire*
9. *Identify principles of exposure protection*
10. *Describe potential long-term consequences of exposure to products of combustion*
11. *List physical states of matter in which fuels are found*
12. *List common types of accidents or injuries and their causes*
13. *Describe how to apply each size and type of attack line*
14. *Define the role of the backup team in fire attack situations*
15. *Describe attack and control techniques for grade level and above and below grade level fires*
16. *Identify methods for locating and exposing hidden fires*

Requisite Skills

1. Prevent water hammers when shutting down nozzles
2. Open, close, and adjust nozzle flow and patterns
3. Apply water using direct, indirect, and combination attacks
4. Advance charged and uncharged 1½ in. (38 mm) diameter or larger hose lines up ladders and up and down interior and exterior stairways
5. Extend hose lines
6. Replace burst hose sections

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7. Operate charged hose lines of 1½ in. (38 mm) diameter or larger while secured to a ground ladder
8. Couple and uncouple various *hose line* connections
9. Carry hose
10. Attack fires at grade level and above and below grade levels
11. Locate and suppress interior wall and subfloor fires

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| JPR | Added “(1½ inch or larger)”. | Specified by RS 4, and RS 7. |
| JPR | Added “pumping apparatus, established water supply”. | You cannot do live fire training evolutions without a water supply. |
| JPR | Added “self-contained breathing apparatus (SCBA)”. | Required for IDLH environments. |
| RK1 | Added knowledge component. | Not included in NFPA 1001 but needed for proper hose use. |
| RK2 | Added knowledge component. | Not included in NFPA 1001 but needed for proper hose use. |
| RK3 | Added knowledge component. | Not included in NFPA 1001 but needed for proper hose selection and attack. |
| RK16 | Added “methods for locating”. | Not included in NFPA 1001 but this is a two-step process. |
| RS8 | Changed “handline” to “hose line”. | Not all hose lines are handlines. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|------------|
| Fire Fighter 1A <ul style="list-style-type: none"> • Topic 2-5: RK10 • Topic 5-1: RK3, RK8 • Topic 5-2: RK11 • Topic 5-5: RK1, RK2, RK5, RK13 • Topic 5-6: RK4, RK6, RK7, RS1, RS2, RS5, RS6, RS8, RS9 • Topic 5-12: RK6, RK7, RK9, RK12, RK14, RK15, RK16, RS3, RS4, RS7, RS10, RS11 | 3-10a: Operate a Charged Attack Hoseline from a Ground Ladder 3-10b: Attack a Live Interior Structure Fire 3-10c: Attack a Simulated Interior Structure Fire 3-10d: Extend a Hoseline 3-10e: Load, Deploy, and Advance an Attack Line 3-10f: Load Supply Hose | (CTS 3-10) |

The training for this standard can be met through the completion of State Fire Training’s Fire Control 3: Structural Fire Fighting (2018) course.

3-11: Performing Horizontal Ventilation on a Structure

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.11

Job Performance Requirement

Perform horizontal ventilation on a structure operating as part of a team, given an assignment, PPE, 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.

Requisite Knowledge

1. *Describe* the principles, advantages, limitations, and effects of horizontal, mechanical, and hydraulic ventilation
2. *Describe* safety considerations when venting a structure
3. *Describe* fire behavior in a structure
4. *List* the products of combustion found in a structure fire
5. *Identify* the signs, causes, effects, and prevention of backdrafts
6. *Describe* the relationship of oxygen concentration to life safety and fire growth

Requisite Skills

1. Transport and operate ventilation tools and equipment and ladders
2. Use safe procedures for breaking window and door glass and removing obstructions

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--------------------------------------|------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 5-2: RK3, RK4, RK5, RK6• Topic 5-13: RK1, RK2, RS1, RS2, RS3 | 3-11: Perform Horizontal Ventilation | (CTS 3-11) |

3-12: Performing Vertical Ventilation on a Structure

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.12
2. Office of the State Fire Marshal

Job Performance Requirement

Perform vertical ventilation on a structure as part of a team, given an assignment, PPE, 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.

Requisite Knowledge

1. *Describe vertical (top-side) ventilation*
2. *Describe methods of heat transfer*
3. *Describe the principles of thermal layering within a structure on fire*
4. *List the techniques and safety precautions for venting flat roofs, pitched roofs, and basements*
5. *Describe basic indicators of potential collapse or roof failure*
6. *Identify the effects of construction type and elapsed time under fire conditions on structural integrity*
7. *Describe the advantages and disadvantages of vertical and trench/strip ventilation*

Requisite Skills

1. Transport and operate ventilation tools and equipment
2. Hoist ventilation tools to a roof
3. Cut roofing and flooring materials to vent flat roofs, pitched roofs, and basements
4. Sound a roof for integrity
5. Clear an opening with hand tools
6. Select, carry, deploy, and secure ground ladders for ventilation activities
7. Deploy roof ladders on pitched roofs while secured to a ground ladder
8. Carry ventilation-related tools and equipment while ascending and descending ladders

Content Modification

| Block | Modification | Justification |
|-------|----------------------------|---|
| RK1 | Added knowledge component. | Needed a basic level introduction to the topic. Mirrors foundational information in the Horizontal Ventilation JPR. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|------------------------------------|------------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 5-1: RK6• Topic 5-2: RK2, RK3• Topic 5-14: RK1, RK4, RK5, RK6, RK7, RS1, RS2, RS3, RS4, RS5, RS6, RS7, RS8 | 3-12: Perform Vertical Ventilation | (CTS 3-12) |

3-13: Overhauling a Fire Scene

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.13
2. Office of the State Fire Marshal

Job Performance Requirement

Overhaul a fire scene, given PPE, an 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.

Requisite Knowledge

1. *Describe the purpose of and methods for overhaul*
2. *Describe types of fire attack lines and water application devices most effective for overhaul*
3. *Describe water application methods for extinguishment that limit water damage*
4. *Identify types of tools and methods used to expose hidden fire*
5. *Describe dangers associated with overhaul*
6. *Describe obvious signs of area of origin or signs of arson*
7. *Identify reasons for protection of fire scene*

Requisite Skills

1. Deploy and operate an attack line *for overhaul*
2. Remove flooring, ceiling, and wall components to expose void spaces without compromising structural integrity
3. Apply water for maximum effectiveness
4. Expose and extinguish hidden fires in walls, ceilings, and subfloor spaces
5. Recognize and preserve obvious signs of area of origin and arson
6. Separate, remove, and relocate charred material to a safe location while protecting the area of origin for cause determination
7. Evaluate for complete extinguishment

Content Modification

| Block | Modification | Justification |
|-------|------------------------------|--|
| RK1 | Added a knowledge component. | Foundational knowledge not included in NFPA. |
| RS1 | Added “for overhaul”. | Adding “for overhaul” dictates hose line selection. |
| RS6 | Added skills component. | This is a skill from NFPA 1001 paragraph 4.3.14. It aligns more closely with the JPR for paragraph 4.3.13. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|---|------------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 5-16 | 3-13a: Overhaul a Fire Scene 3-13b: Remove Charred Materials | (CTS 3-13) |

3-14: Conserving Property

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.14
2. Office of the State Fire Marshal

Job Performance Requirement

Conserve property as a member of a team, given salvage tools and equipment, *PPE*, and an assignment, so that the building and its contents are protected from further damage.

Requisite Knowledge

1. *Describe* the purpose of property conservation and its value to the public
2. *Describe* methods used to protect property
3. *List* types of and uses for salvage covers
4. *Describe* operations at properties protected with automatic sprinklers
5. *Describe* how to stop the flow of water from an automatic sprinkler head
6. *Identify* the main control valve on an automatic sprinkler system
7. *Describe* forcible entry issues related to salvage
8. *Describe* procedures for protecting possible areas of origin and potential evidence

Requisite Skills

1. Cluster furniture
2. Deploy covering materials
3. Roll and fold salvage covers for reuse
4. Construct water chutes and catch-alls
5. Remove water
6. Cover building openings, including doors, windows, floor openings, and roof openings
7. Stop the flow of water from a sprinkler with sprinkler wedges or stoppers
8. Operate a main control valve on an automatic sprinkler system

Content Modification

| Block | Modification | Justification |
|-------|---|--|
| JPR | Added "PPE". | Not included in NFPA 1001 but required for fire fighter safety. |
| RS | Removed "Separate, remove, and relocate charred material to a safe location while protecting the area of origin for cause determination". | This skill aligns more closely with the JPR for NFPA 1001 paragraph 43.13. It was relocated to 3-13: Overhauling a Fire Scene. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|---|------------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 5-15 | 3-14a: Control Water Flow from a Sprinkler System 3-14b: Remove Water from the Interior of a Structure 3-14c: Salvage a Room and its Contents 3-15d: Cover Building Openings | (CTS 3-14) |

3-15: Connecting a Fire Department Pumper to a Water Supply

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.15
2. Office of the State Fire Marshal

Job Performance Requirement

Connect a fire department pumper to a water supply as a member of a team, given supply or intake hose, hose tools, a fire hydrant or static water source, *an apparatus*, and *PPE*, so that connections are tight and water flow is unobstructed.

Requisite Knowledge

1. *Describe types and components of municipal and rural water systems*
2. *Describe loading and off-loading procedures for mobile water supply apparatus*
3. *Describe fire hydrant operation*
4. *Identify suitable static water supply sources*
5. *Describe procedures and protocol for connecting to various water sources*

Requisite Skills

1. Hand lay a supply hose
2. Connect and place hard suction hose for drafting operations
3. Deploy portable water tanks as well as the equipment necessary to transfer water between and draft from them
4. Make hydrant-to-pumper hose connections for forward and reverse lays
5. Connect supply hose to a hydrant
6. Fully open and close the hydrant

Content Modification

| Block | Modification | Justification |
|-------|------------------------------|--|
| JPR | Added "and PPE". | Not included in NFPA 1001 but required for fire fighter safety. |
| JPR | Added "an apparatus" | Required to complete the JPR but not listed as a given. |
| RK1 | Added a knowledge component. | NFPA 1001 assumes that the candidate is using a pressurized hydrant but there are other types of water supply. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|--|------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 5-4: RK1, RK2, RK3, RK4, RK5• Topic 5-6: RS1, RS2, RS3, RS4, RS5, RS6 | 3-15a: Deploy Portable Tank and Prepare for Drafting Operations 3-15b: Hose Lay | (CTS 3-15) |

3-16: Extinguishing Incipient Class A, Class B, and Class C Fires

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.16
2. Office of the State Fire Marshal

Job Performance Requirement

Extinguish incipient Class A, Class B, and Class C fires, given a selection of portable fire extinguishers *and PPE*, so that the correct extinguisher is chosen, the fire is completely extinguished, and correct extinguisher-handling techniques are followed.

Requisite Knowledge

1. *Describe* the classifications of fire
2. *Identify* the types of, rating systems for, and risks associated with each class of fire
3. *Describe* operating methods and limitations of portable extinguishers

Requisite Skills

1. Operate portable fire extinguishers
2. Approach fire with portable fire extinguishers
3. Select an appropriate extinguisher based on the size and type of fire
4. Safely carry portable fire extinguishers

Content Modification

| Block | Modification | Justification |
|-------|---------------------------|---|
| JPR | Added " <i>and PPE</i> ". | Not included in NFPA 1001 but required for fire fighter safety. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|---|------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 5-2: RK1• Topic 5-3: RK2, RK3, RS1, RS2, RS3, RS4 | 3-16: Select, Carry, and Operate a Portable Fire Extinguisher | (CTS 3-16) |

3-17: Operating Emergency Scene Lighting

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.17
2. Office of the State Fire Marshal

Job Performance Requirement

Operate emergency scene lighting, given fire service lighting equipment, a power supply, and an assignment, so that emergency scene lighting equipment is operated within the manufacturer's listed safety precautions.

Requisite Knowledge

1. *Describe* safety principles and practices *for portable electrical equipment*
2. *Identify* power supply capacity and limitations
3. *Describe* light deployment methods

Requisite Skills

1. Operate department power supply and lighting equipment
2. Deploy cords and connectors
3. Reset ground-fault interrupter (GFI) devices
4. Locate lights for best effect

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| RK1 | Added "for portable electrical equipment". | This was added to narrow the scope of discussion. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|---------------------|------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 4-3 | 3-17: Light a Scene | (CTS 3-17) |

3-18: Turning Off Building Utilities

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.18
2. Office of the State Fire Marshal

Job Performance Requirement

Turn off building utilities, given tools, *PPE*, and an assignment, so that the assignment is safely completed.

Requisite Knowledge

1. *Describe* properties, principles, and safety concerns for *electrical*, *gas*, and *water* systems
2. *Identify* utility disconnect methods and associated dangers
3. *Describe how to* use required safety equipment

Requisite Skills

1. Identify utility control devices
2. Operate control valves or switches
3. Assess for related hazards

Content Modification

| Block | Modification | Justification |
|-------|---|--|
| JPR | Added "PPE". | Not included in NFPA 1001 but required for fire fighter safety. |
| RK1 | Replaced "electricity" with "electrical". | "Electrical" is the proper use of "electricity" as an adjective. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-----------------------------------|------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 5-7 | 3-18: Turn Off Building Utilities | (CTS 3-18) |

3-19: Combatting a Ground Cover Fire

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.19
2. Office of the State Fire Marshal

Job Performance Requirement

Combat a ground cover fire operating as a member of a team, given *personal protective equipment (PPE)*, 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.

Requisite Knowledge

1. *Describe* types of ground cover fires
2. *Describe* parts of ground cover fires
3. *Describe* methods to contain or suppress
4. *Describe* safety principles and practices

Requisite Skills

1. Determine exposure threats based on fire spread potential
2. Protect exposures
3. Construct a fire line or extinguish with hand tools,
4. Maintain integrity of established fire lines
5. Suppress ground cover fires using water

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| JPR | Replaced “protective clothing” with “personal protective equipment (PPE)”. | Protective clothing isn’t comprehensive enough to meet JPR requirements. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|----------------------------------|------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 7-3 | 3-19: Combat a Ground Cover Fire | (CTS 3-19) |

3-20: Tying Knots Appropriate for Hoisting Tools

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.20
2. Office of the State Fire Marshal

Job Performance Requirement

Tie a knot appropriate for hoisting tools, given PPE, tools, ropes, *webbing*, and an assignment, so that the knots used are appropriate for hoisting tools securely and as directed.

Requisite Knowledge

1. *Identify rope types and usage*
2. *Identify knot types and usage*
3. *Describe the difference between life safety and utility rope*
4. *Identify reasons for placing rope out of service*
5. *Identify types of knots to use for given tools, ropes, or situations*
6. *Describe hoisting methods for tools and equipment*
7. *Describe how to use rope to support response activities*

Requisite Skills

1. *Tie knots specific to hoisting different types of tools*
2. Hoist tools using specific knots based on the type of tool

Content Modification

| Block | Modification | Justification |
|-------|----------------------------|--|
| JPR | Added “webbing”. | Not included in NFPA 1001 but is commonly used for this task. |
| RK1 | Added knowledge component. | Not included in NFPA 1001 but it’s a basic knowledge component required to complete the JPR. |
| RS1 | Added skill component. | Not included in NFPA 1001 but required to complete the JPR. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 4-1 | 3-20a: Tie Knots 3-20b: Hoist Tools Aloft | (CTS 3-20) |

3-21: Operating Hand and Power Tools

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Operate hand and power tools, given hand and power tools and an assignment, so that tools are properly operated, maintained, and transported in accordance with manufacturer specifications and AHJ policies and procedures.

Requisite Knowledge

1. Describe types of hand and power tools
2. Describe uses of hand and power tools

Requisite Skills

1. Transport hand and power tools
2. Operate hand and power tools
3. Maintain hand and power tools

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| CTS | Added a certification training standard. | Many NFPA paragraphs require knowledge and skills regarding hand tools. Created one standard to cover foundational knowledge. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|------------------------------------|------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 4-2 | 3-21: Operate Hand and Power Tools | (CTS 3-21) |

3-22: Operating an Air-Monitoring Instrument

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.3.21

Job Performance Requirement

Operate an air-monitoring instrument, given an air monitor and an assignment or task, so that the device is operated and the fire fighter recognizes the high- or low-level alarms of the air monitor and takes action to mitigate the hazard.

Requisite Knowledge

1. *Identify* the various uses for an air monitor
2. *Describe* basic operation of an air monitor
3. *Describe* air monitoring procedures
4. *Identify how to recognize* high- or low-level alarms of the air monitor
5. *Describe* emergency actions to be taken upon the activation of the high- or low-level alarms of the air monitor

Requisite Skills

1. Operate the air monitor
2. Recognize the alarms
3. React to the alarms of the air monitor

Content Modification

| Block | Modification | Justification |
|-------|---|---|
| RK1 | Removed “knowledge of” | This content is already in the knowledge section; we don’t need knowledge of knowledge. |
| RK3 | Split one knowledge component into two. | Clarifying a poorly written knowledge component. |
| RK4 | Split one knowledge component into two. | Clarifying a poorly written knowledge component. |
| RS3 | Added a knowledge component. | NFPA does not cover the step-by-step process. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|------------|
| Fire Fighter 1A <ul style="list-style-type: none">• Topic 4-4 | 3-22: Operate an Air-Monitoring Instrument | (CTS 3-22) |

Section 4: Preparedness and Maintenance

4-1: Cleaning and Checking Ladders, Ventilation Equipment, SCBA, Ropes, Salvage Equipment, and Hand Tools

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 4.5.1
2. Office of the State Fire Marshal

Job Performance Requirement

Clean and check ladders, ventilation equipment, 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.

Requisite Knowledge

1. *Describe* types of cleaning methods for various tools and equipment
2. *Describe* the correct use of cleaning solvents
3. *Identify* manufacturer or departmental guidelines for cleaning equipment and tools
4. *Identify manufacturer or departmental guidelines for removing tools and equipment from service*

Requisite Skills

1. Select correct tools to *maintain* various parts and pieces of equipment
2. Follow guidelines
3. Complete recording and reporting procedures

Content Modification

| Block | Modification | Justification |
|-------|----------------------------|--|
| RK4 | Added knowledge component. | Added to support the JPR. |
| RS1 | Added "to maintain". | Added to clarify the purpose for tool selection. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|--------------------------------|-----------|
| Fire Fighter 1A <ul style="list-style-type: none"> • Topic 2-5: RK1, RK2, RK3, RK4, RS1, RS2, RS3 (as it pertains to SCBA) • Topic 4-1: RK1, RK2, RK3, RK4, RS1, RS2, RS3 (as it pertains to rope) • Topic 4-2: RK1, RK2, RK3, RK4, RS1, RS2, RS3 (as it pertains to tools) • Topic 5-9: RK1, RK2, RK3, RK4, RS 1, RS2, RS3 (as it pertains to ladders) • Topic 5-15: RK1, RK2, RK3, RK4, RS1, RS2, RS3 (as it pertains to horizontal ventilation equipment) • Topic 5-16: RK1, RK2, RK3, RK4, RS1, RS2, RS3 (as it pertains to vertical ventilation equipment) • Topic 5-17: RK1, RK2, RK3, RK4, RS1, RS2, RS3 (as it pertains to salvage equipment) | 4-1: Clean and Check Equipment | (CTS 4-1) |

4-2: Cleaning, Inspecting, and Returning Fire Hose to Service

Authority

1. NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
 - Paragraph 5.4.2
2. Office of the State Fire Marshal

Job Performance Requirement

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.

Requisite Knowledge

1. *Describe* departmental procedures for inspecting a hose according to manufacturer guidelines, noting a defective hose, and removing it from service
2. *Describe* cleaning and maintenance methods
3. *Describe* types of hose rolls and loads

Requisite Skills

1. Clean different types of hose
2. Operate hose washing and drying equipment
3. Mark defective hose
4. Replace coupling gaskets
5. Roll hose
6. Reload hose

Content Modification

| Block | Modification | Justification |
|-------|---|--|
| RK1 | Added “inspecting a hose according to manufacturer guidelines”. | This strengthens the knowledge component with a standard. |
| RK2 | Added “and maintenance”. | There are steps beyond cleaning required before returning hose to a ready state. |
| RK3 | Added “types of”. | Added for clarification. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|-----------|
| Fire Fighter 1A <ul style="list-style-type: none"> • Topic 5-5: RK1, RK2, RK3, RS1, RS2, RS3, RS4 • Topic 5-6: RS5, RS6 | 4-2a: Replace a Burst Section of Hose 4-2b: Build Hose Rolls 4-2c: Clean and Maintain Hose and Mark Defective Hose | (CTS 4-2) |

Hazardous Materials/WMD

Section 5: Awareness

5-1: Description of Duties (Awareness)

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 5.1.3

Job Performance Requirement

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

Requisite Knowledge

1. *Identify* the role of awareness level personnel at a hazardous materials/WMD incident
2. *Identify* the location and contents of the AHJ emergency response plan
3. *Describe* standard operating procedures for awareness level personnel

Requisite Skills

1. None specified

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-------------------------------------|-------------------------------------|
| Fire Fighter 1B <ul style="list-style-type: none">• Topic 2-1 | Cognitive only – no testable skills | Cognitive only – no testable skills |

5-2: Recognizing and Identifying Hazardous Materials/WMD and Associated Hazards

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 5.2.1

Job Performance Requirement

Recognize and identify the hazardous materials/WMD and hazards involved in a hazardous materials/WMD incident, given a hazardous materials/WMD incident and approved reference sources, so that the presence of hazardous materials/WMD is recognized and the materials and their hazards and associated harm are identified.

Requisite Knowledge

1. *Describe how to recognize* hazardous materials (dangerous goods internationally) and WMD
2. *Describe* the differences between hazardous materials/WMD incidents and other emergencies
3. *Define* hazard classes and divisions of hazardous materials/WMD
4. *Describe* ways in which hazard classes and divisions are harmful to people, the environment, animals, and property
5. *Identify* general routes of entry for human exposure to hazardous materials/WMD
6. *Identify* sights, sounds, and odors that might indicate the presence of hazardous materials
7. *Identify the* limitations of using senses to determine the presence of hazardous materials/WMD
8. *Identify* indicators to the presence of hazardous materials including container shapes included in the ERG, NFPA 704 markings, globally harmonized system (GHS) markings, placards, labels, pipeline markings, other transportation markings [including UN/NA identification number marks, marine pollutant mark, elevated temperature (HOT) mark, commodity marking, and inhalation mark], shipping papers and emergency response information and the person responsible for the shipping papers in each mode of transportation (air, highway, rail, and water), where shipping papers are found during emergencies and nonemergency situations in each mode of transportation, and other indicators (including military hazardous materials/WMD markings, special hazard communication markings, and special container markings)
9. *Describe how to* access response information from the *Emergency Response Guidebook* (ERG) (current edition) using the alphabetical index of chemical names, numerical index of identification numbers, table of markings, labels, and placards, or container identification charts
10. *List* types of hazard information available from the ERG, safety data sheets (SDS), shipping papers and emergency response information, and sources for obtaining the names of hazardous materials/WMD at a facility

Requisite Skills

1. Recognize indicators to the presence of hazardous materials/WMD
2. Identify hazardous materials/WMD by name, UN/NA identification number, marking/label/placard applied, or container shapes identified in the ERG
3. Use the ERG, SDS, manufacturer/shipping/carrier documents (including shipping papers and emergency response information) and other approved reference sources to identify hazardous materials/WMD and their primary hazards

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|---|-----------|
| Fire Fighter 1B <ul style="list-style-type: none"> • Topic 2-2 | 5-2a: Recognize, Identify, and Isolate Hazardous Materials/WMD 5-2b: Identify Markings | (CTS 5-2) |

5-3: Isolating the Hazard Area and Denying Entry

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 5.3.1
2. Office of the State Fire Marshal

Job Performance Requirement

Isolate the hazard area and deny entry at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, policies and procedures, and approved reference sources, so that the hazard area is isolated and secured, personal safety procedures are followed, hazards are avoided or minimized, and additional people are not exposed to further harm.

Requisite Knowledge

1. *Describe how to* use the ERG, SDS, shipping papers and emergency response information, or other approved reference sources to identify initial isolation and protective action distances, identify initial emergency actions (fire, spill, or leak and first aid), identify initial PPE, and identify recommended protective actions
2. *Describe* the difference between the isolation distances on the orange-bordered guidebook pages and the protective action distances on the green-bordered ERG pages
3. *Describe* the difference(s) between small and large spills as found in the Table of Initial Isolation and Protective Action Distances in the ERG or equivalent documents
4. Describe policies and procedures for isolating the hazard area and denying entry
5. Identify the purpose of and methods for isolating the hazard area and denying entry

Requisite Skills

1. Recognize precautions for protecting responders and the public
2. Identifying isolation areas
3. Denying entry
4. Avoiding or minimizing hazards

Content Modification

| Block | Modification | Justification |
|-------|--------------|---|
| RS4 | Added “or”. | Accidental NFPA omission. Without it, RS 4 contradicts the JPR requirement. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|-----------|
| Fire Fighter 1B <ul style="list-style-type: none"> • Topic 2-3 | 5-2a: Recognize, Identify, and Isolate Hazardous Materials/WMD | (CTS 5-3) |

5-4: Initiating Required Notifications

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 5.4.1

Job Performance Requirement

Initiate required notifications at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, policies and procedures, and approved communications equipment, so that the notification process is initiated and the necessary information is communicated.

Requisite Knowledge

2. *Identify* policies and procedures for notification, reporting, and communications

Requisite Skills

3. Communicate in accordance with policies and procedures

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--------------------------------------|-----------|
| Fire Fighter 1B <ul style="list-style-type: none">• Topic 2-4 | 5-4: Initiate Required Notifications | (CTS 5-4) |

Section 6: Operations

6-1: Description of Duties (Operations)

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 7.1.4

Job Performance Requirement

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

Requisite Knowledge

1. *Identify the* role of operations level responders at a hazardous materials/WMD incident
2. *Identify the* location and contents of AHJ emergency response plan and standard operating procedures for operations level responders, including those response operations for hazardous materials/WMD incidents

Requisite Skills

1. None specified

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-------------------------------------|-------------------------------------|
| Fire Fighter 1B <ul style="list-style-type: none">• Topic 3-1 | Cognitive only – no testable skills | Cognitive only – no testable skills |

6-2: Identifying the Scope of a Hazardous Materials/WMD Incident

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 7.2.1

Job Performance Requirement

Identify the scope of the problem at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, and approved reference sources, so that container types, materials, location and physical state (form) of release, and surrounding conditions are identified, hazard and response information is collected, the potential behavior of a material and its container is identified, and the potential hazards, harm, and outcomes associated with that behavior are identified.

Requisite Knowledge

1. *Identify* types of information to be collected during the hazardous materials/WMD incident survey, including types of containers and the physical state of their likely contents, materials involved, general location and physical state (form) of release, and surrounding conditions in accordance with 6.2.1.4
2. *Identify* container identification markings, including transportation vehicles and facility storage tanks, pesticide labels, radioactive material labels, piping and pipeline markings and contacting information
3. *Identify the availability and location* of shipping papers in transportation and of safety data sheets (SDS) at facilities
4. *Describe* types of hazard and response information available from and how to contact CHEMTREC, CANUTEC, and SETIQ, governmental authorities, and manufacturers, shippers, and carriers (highway, rail, water, air, pipeline)
5. *Describe* how to communicate with subject matter experts including carrier and manufacturer representatives to reduce impact of a release
6. *Identify* basic physical and chemical properties, in accordance with 6.2.3(1) and 6.2.3(2)
7. *Identify* the behavior of a material and its container based on the material's physical and chemical properties and identify hazards associated with that behavior
8. *List* examples of potential criminal and terrorist targets
9. *Identify* indicators of possible criminal or terrorist activity for each of the following: chemical agents, biological agents, radiological agents, illicit laboratories and explosives
10. *Describe* additional hazards associated with terrorist or criminal activities, such as secondary devices and threats
11. Determine the likely harm and outcomes associated with the identified behavior and the surrounding conditions

Requisite Skills

1. Identify container types, materials, location and physical state (form) of release, and surrounding conditions at a hazardous materials/WMD incident
2. Collect hazard and response information
3. Communicate with pipeline operators or carrier representatives
4. Describe the likely behavior of the hazardous materials or WMD and its container
5. Describe the likely outcomes associated with the identified behavior and surrounding conditions

Content Modification

| Block | Modification | Justification |
|-------|-----------------------|--|
| RK5 | Added “and location”. | The documents should always be available; the real knowledge is in knowing where they are located. |
| RS2 | Removed “ing”. | Removed to for consistency with verb tenses of other NFPA standards. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|---|-----------|
| Fire Fighter 1B <ul style="list-style-type: none"> • Topic 3-2 | 6-2: Identify the Scope of a Hazardous Materials/WMD Incident | (CTS 6-2) |

6-3: Identifying Tactics for a Hazardous Materials/WMD Incident

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 7.3.1

Job Performance Requirement

Identify the tactics for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, approved reference sources, and the scope of the problem, so that response information is collected; strategies, tactics, safety precautions, suitability of approved personal protective equipment (PPE) available, and emergency decontamination needs are identified; and an action plan is developed.

Requisite Knowledge

1. *Identify* policies and procedures for hazardous materials/WMD incident operations
2. *List the* basic components of an incident action plan (IAP)
3. *Describe* modes of operation (offensive, defensive, and nonintervention)
4. *Describe* types of strategies
5. *Describe* types of tactics
6. *Identify* types of response information available from the Emergency Response Guidebook (ERG), safety data sheets (SDS), shipping papers and emergency response information, and other resources
7. *Identify* types of assistance provided by, procedure for contacting, and information to be provided to CHEMTREC, CANUTEC, and SETIQ, governmental authorities, and manufacturers, shippers, and carriers (highway, rail, water, air, pipeline)
8. *Describe* safety procedures
9. *Describe* actions necessary when incident involves potential criminal or terrorist activities
10. *Describe* risk analysis concepts
11. *Identify the* purpose, advantages, limitations, and required physical capabilities of personnel working in PPE
12. *Identify the* uses of approved PPE to determine if PPE is suitable for the incident conditions
13. *Explain the* difference between the terms included in 10.2.3.1(b)
14. *Identify* contamination types, including sources and hazards of carcinogens at incident scenes
15. *Describe* types of decontamination (emergency, mass, and technical)
16. *Describe the* purpose, advantages, and limitations of emergency decontamination
17. *Describe* procedures, tools, and equipment for performing emergency decontamination

Requisite Skills

1. Identify strategies and tactics based on the scope of the problem and available resources
2. Identify whether approved PPE is suitable for the incident conditions
3. Identify emergency decontamination needs based on the scope of the problem

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|---|-----------|
| Fire Fighter 1B <ul style="list-style-type: none">• Topic 3-2: RK7• Topic 3-4: RK13, RK14, RK15, RK16• Topic 3-5: RK1, RK2, RK3, RK4, RK5, RK6, RK8, RK9, RK10, RK11, RK12, RS1, RS2, RS3 | 6-3: Identify Action Options for a Hazardous Materials/WMD Incident | (CTS 6-3) |

6-4: Performing Assigned Tasks at a Hazardous Materials/WMD Incident

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 7.4.1
2. Office of the State Fire Marshal

Job Performance Requirement

Perform assigned tasks at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment with limited potential of contact with hazardous materials/WMD, policies and procedures, the scope of the problem, approved tools, equipment, and PPE, so that protective actions and scene control are established and maintained, on-scene incident command is initiated, evidence is preserved, approved PPE is selected and used in the proper manner, exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized, assignments are completed, and emergency decontamination is conducted in the field.

Requisite Knowledge

1. *Describe* scene control procedures, including control zones and the criteria for determining the locations of the control zones
2. *Describe* protective actions, including evacuation and sheltering-in-place
3. *Describe* procedures for ensuring coordinated communications between responders and to the public
4. *List* evidence recognition and preservation procedures
5. *Identify* hazardous materials/WMD incident command roles and responsibilities within the incident command system (ICS)
6. *Identify* the purpose, importance, benefits, and organization of incident command at hazardous materials/WMD incidents
7. *Describe* policies and procedures for implementing incident command at hazardous materials/WMD incidents
8. *Describe* duties and responsibilities of the Incident Safety Officer
9. *Describe* items to be considered in a safety briefing per 6.4.1(5)
10. *Describe* duties and responsibilities of the hazardous materials branch or group
11. *Describe* the capabilities, limitations, inspection, donning, working in, going through decontamination while wearing, and doffing of approved PPE
12. *Describe how to recognize* signs and symptoms of thermal stress
13. *Identify* safety precautions when working at hazardous materials/WMD incidents
14. *Describe* purpose, advantages, and limitations of emergency decontamination
15. *Identify* the need for emergency decontamination in the field based on the task(s) performed and contamination received, including sources and hazards of carcinogens at incident scenes
16. *Describe* emergency decontamination procedures for personnel, tools, equipment, and PPE

17. Describe how to clean, disinfect, and inspect tools, equipment, and PPE

Requisite Skills

1. Establish and maintain scene control
2. Recognize and preserve evidence
3. Inspect, don, work in, go through decontamination while wearing, and doff approved PPE
4. Isolate contaminated tools, equipment, and PPE
5. Conduct emergency decontamination of contaminated personnel, tools, equipment, and PPE in the field
6. Clean, disinfect, and inspect approved tools, equipment, and PPE

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| RK5 | Changed “Describe incident command organization” to “Identify hazardous materials/WMD incident command roles and responsibilities within the incident command system (ICS)”. | Expanded to identify that there are roles and responsibilities specific to HazMat/WMD within the ICS. |
| RK14 | Removed “ing” from “cleaning, disinfecting, and inspecting”. | Removed for consistency with other RK language. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|---|-----------|
| Fire Fighter 1B <ul style="list-style-type: none"> • Topic 3-3: RK11, RK17 • Topic 3-4: RK14, RK16 • Topic 3-6: RK1, RK2, RK3, RK4, RK5, RK6, RK7, RK8, RK9, RK10, RK12, RK13, RK15, RS1, RS2, RS3, RS4, RS5, RS6 | 6-4: Perform Assigned Tasks at a Hazardous Materials/WMD Incident | (CTS 6-4) |

6-5: Performing Emergency Decontamination at a Hazardous Materials/ WMD Incident

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 7.5.1

Job Performance Requirement

Perform emergency decontamination at a hazardous materials/WMD incident, given a hazardous materials/WMD incident that requires emergency decontamination; an assignment; scope of the problem; policies and procedures; and approved tools, equipment, and PPE for emergency decontamination, so that emergency decontamination needs are identified, approved PPE is selected and used, exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized, emergency decontamination is set up and implemented, and victims and responders are decontaminated.

Requisite Knowledge

1. *Define* contamination, cross contamination, and exposure
2. *Describe* contamination types
3. *List* routes of exposure
4. *Identify* types of decontamination (emergency, mass, and technical)
5. *Describe the* purpose, advantages, and limitations of emergency decontamination
6. *Describe* policies and procedures for performing emergency decontamination
7. *Identify* approved tools and equipment for emergency decontamination
8. *Describe* hazard avoidance for emergency decontamination

Requisite Skills

1. Select an emergency decontamination method
2. Set up emergency decontamination in a safe area
3. Use PPE in the proper manner
4. Implement emergency decontamination
5. Prevent spread of contamination
6. Avoid hazards during emergency decontamination

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|------------------|
| Fire Fighter 1B <ul style="list-style-type: none">• Topic 3-4 | 6-5: Perform Emergency Decontamination | (CTS 6-5) |

6-6: Evaluating and Reporting Progress for a Hazardous Materials/WMD Incident

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 7.6.1

Job Performance Requirement

Evaluate and report the progress of an assigned task for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, status of implemented strategies and tactics, and approved communication tools and equipment, so that the effectiveness of the assigned task is evaluated and communicated to the Incident Commander or designee so that the IAP can be adjusted as needed.

Requisite Knowledge

1. *List* components of progress reports
2. *Describe* policies and procedures for evaluating and reporting progress
3. *Describe* methods for immediate notification of Incident Commander and other response personnel regarding critical emergency conditions at an incident
4. *Describe how to* use approved communication tools and equipment
5. *Identify* facts and circumstances indicating improving, static, or deteriorating conditions based on the objectives of the assigned tasks intended to accomplish the incident objectives
6. *Describe how to* compare actual behavior of the material and the container to the predicted circumstances under which it would be prudent to withdraw from a hazardous materials/WMD incident

Requisite Skills

1. Determine incident status
2. Determining whether the strategies are being accomplished
3. Use approved communications tools and equipment
4. Communicate the status of assigned tasks

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|-----------|
| Fire Fighter 1B <ul style="list-style-type: none"> • Topic 3-8 | 6-8: Evaluate and Report Progress for a Hazardous Materials/WMD Incident | (CTS 6-6) |

Section 7: Operations – Mission Specific

7-1: Selecting, Donning, Working In, and Doffing Approved PPE at a Hazardous Materials/WMD Incident

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 9.2.1

Job Performance Requirement

Select, don, work in, and doff approved PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; a mission-specific assignment in an IAP that requires use of PPE; the scope of the problem; strategies and tactics for the incident; access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures; approved PPE; and policies and procedures, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected, inspected, donned, worked in, decontaminated, and doffed; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; PPE is maintained and stored consistent with AHJ policies and procedures and NFPA 1891; and all reports and documentation pertaining to PPE use are completed.

Requisite Knowledge

1. *Describe* policies and procedures for PPE selection and use
2. *Describe the* importance of working under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures when selecting and using PPE
3. *Identify* the purpose, capabilities, and limitations of and specialized donning, doffing, and usage procedures for approved PPE
4. *List* components of an incident action plan (IAP)
5. *Describe* procedures for decontamination, inspection, maintenance, and storage of approved PPE
6. *Describe the* process for being decontaminated while wearing PPE
7. *Describe* procedures for reporting and documenting the use of PPE

Requisite Skills

1. Select PPE for the assignment
2. Inspect, maintain, store, don, work in, and doff PPE
3. Go through decontamination (emergency and technical) while wearing the PPE
4. Report and document the use of PPE

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|--|-----------|
| Fire Fighter 1B <ul style="list-style-type: none">• Topic 3-3: RK1, RK2, RK3, RK5, RK6, RK7, RS1, RS2, RS3, RS4• Topic 3-5: RK4 | 7-1: Don, Work In, and Doff Chemical Protective Clothing | (CTS 7-1) |

7-2: Performing Product Control Techniques at a Hazardous Materials/WMD Incident

Authority

1. NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (2022)
 - Paragraph 9.6.1
2. Office of the State Fire Marshal

Job Performance Requirement

Perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.

Requisite Knowledge

1. *Describe* types of PPE and the hazards for which they are used
2. *Describe the* importance of working under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures
3. *Define* control, confinement, containment, and extinguishment
4. *Describe* policies and procedures *for product control*
5. *Identify* product control methods for controlling a release with limited risk of personal exposure
6. *Describe* safety precautions associated with each product control method
7. *Identify the* location and operation of remote/emergency shutoff devices in cargo tanks and intermodal tanks in transportation and containers at facilities that contain flammable liquids and flammable gases
8. *List* characteristics and applicability of approved product control agents
9. *Describe how to* use approved tools and equipment
10. *Identify* requirements for reporting and documenting product control operations

Requisite Skills

1. Select and use PPE
2. Select and perform product control techniques to confine/contain the release with limited risk of personal exposure

3. Use approved control agents and equipment on a release involving hazardous materials/WMD
4. Use remote control valves and emergency shutoff devices on cargo tanks and intermodal tanks in transportation and containers at fixed facilities
5. Perform product control techniques

Content Modification

| Block | Modification | Justification |
|-------|------------------------------|---|
| RK4 | Added “for product control”. | Added to narrow the scope of discussion of policies and procedures. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|------------------------------|-----------|
| Fire Fighter 1B <ul style="list-style-type: none"> • Topic 3-3: RK1 • Topic 3-7: RK2, RK3, RK4, RK5, RK6, RK7, RK8, RK9, RK10, RS1, RS2, RS3, RS4, RS5 | 7-2: Perform Product Control | (CTS 7-2) |

Wildland Fire Fighter 1

Section 8: Wildland Fire Fighter Duties

8-1: Role of the Wildland Fire Fighter

Authority

1. NFPA 1140: Standard for Wildland Fire Protection (2022)
 - Paragraph 4.2.1, 4.2.2
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* fireline safety and use and limitations of personal protective equipment
2. *Describe the use, limitations, inspection, and care of a fire shelter*
3. *Describe* AHJ policy on fire shelter use
4. *Describe* basic wildland fire behavior
5. *Identify* fire suppression techniques
6. *Identify* basic wildland fire tactics
7. *Describe* the firefighter's role within the AHJ incident management system
8. *Describe* AHJ required first aid
9. *Describe how to use* NFES 1077, Incident Response Pocket Guide (IRPG)

Requisite Skills

1. *Use* basic verbal communication
2. *Use* required personal protective equipment
3. *Deploy a fire shelter*

Content Modification

| Block | Modification | Justification |
|-------|----------------------------|--|
| RK2 | Added knowledge component. | Added to call attention to a unique element of PPE that isn't physically worn. |
| RS1 | Added "use". | NFPA did not provide a verb. |
| RS3 | Added skills component. | Not covered by NFPA 1051 but critical for wildland fire fighter survival. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-------------------------------------|-------------------------------------|
| Fire Fighter 1C <ul style="list-style-type: none">• Topic 1-3: RK4, RK5, RK6, RK7, RK8, RK9• Topic 2-1: RK4• Topic 2-3: RS1• Topic 2-4: RK1, RS2• Topic 2-5: RK2, RK3, RS3• Topic 3-2: RK5, RK6• Topic 3-4: RK4 | Cognitive only – no testable skills | Cognitive only – no testable skills |

8-2: Donning Wildland Personal Protective Equipment

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Don wildland personal protective equipment (PPE), given PPE, so the PPE is donned in 60 seconds or less and all elements of the PPE ensemble are worn in accordance with manufacturer guidelines.

Requisite Knowledge

1. Identify the components of wildland PPE
2. Explain the importance of standards for wildland PPE
3. Describe the protection provided by wildland PPE
4. Describe the limitations of wildland PPE
5. Identify manufacturer guidelines for correct PPE use

Requisite Skills

1. Don PPE

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| CTS | Added a certification training standard. | NFPA 1051 does not include a designated JPR for donning wildland PPE. OSFM uses 60 seconds as the industry standard. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|---|-----------|
| Fire Fighter 1C <ul style="list-style-type: none">• Topic 2-4 | 8-2: Don Wildland Personal Protective Equipment | (CTS 8-2) |

8-3: Deploying a Fire Shelter

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Deploy a fire shelter, given PPE, a hand tool, a live or simulated incident, and a fire shelter, so that the fire shelter is deployed within 30 seconds and used in accordance with manufacturer and AHJ procedures.

Requisite Knowledge

1. Describe the protection provided by and limitations of fire shelters
2. Describe how to inspect and evaluate a fire shelter
3. Describe how to select and prepare a shelter deployment site
4. Identify items to take into and leave outside a fire shelter
5. Describe methods for deploying a fire shelter
6. Identify when to deploy and exit a fire shelter during an incident

Requisite Skills

1. Deploy a fire shelter within 30 seconds

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| CTS | Added a certification training standard. | NFPA 1051 does not include a designated JPR for deploying a fire shelter. OSFM uses 30 seconds as the industry standard. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|----------------------------|-----------|
| Fire Fighter 1C <ul style="list-style-type: none">• Topic 2-5 | 8-3: Deploy a Fire Shelter | (CTS 8-3) |

8-4: Doffing Wildland Personal Protective Equipment

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Doff wildland personal protective equipment (PPE), given PPE, so that PPE is removed in accordance with manufacturer guidelines and returned to a ready state.

Requisite Knowledge

1. Identify when it is safe to doff PPE
2. Identify AHJ policies and procedures for doffing PPE

Requisite Skills

1. Doff PPE
2. Return PPE to a ready state

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| CTS | Added a certification training standard. | NFPA 1051 does not include a designed JPR for doffing PPE. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--------------------------------|--|-----------|
| Fire Fighter 1C • Topic 2-4 | 8-4: Doff Wildland Personal Protective Equipment | (CTS 8-4) |

Section 9: Preparedness

9-1: Maintaining Assigned Personal Protective Equipment

Authority

1. NFPA 1140: Standard for Wildland Fire Protection (2022)
 - Paragraph 4.4.2

Job Performance Requirement

Maintain assigned personal protective equipment, given the standard equipment issue, so that the equipment is serviceable and available for use on the fireline and defects are recognized and reported to the supervisor.

Requisite Knowledge

1. *Describe how to* maintain personal protective equipment, including inspection, the recognition of unserviceable items, and proper cleaning procedures

Requisite Skills

1. None specified

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|-----------|
| Fire Fighter 1C <ul style="list-style-type: none">• Topic 2-4 | 9-1: Maintain Assigned Personal Protective Equipment | (CTS 9-1) |

9-2: Maintaining Assigned Suppression Hand Tools and Equipment

Authority

1. NFPA 1140: Standard for Wildland Fire Protection (2022)
 - Paragraph 4.4.3

Job Performance Requirement

Maintain assigned suppression hand tools and equipment, given tools and equipment and AHJ maintenance specifications, so that assigned equipment is maintained and serviceable and defects are recognized and reported to the supervisor.

Requisite Knowledge

1. *Describe how to* inspect tools and assigned suppression equipment
2. *Describe how to* recognize unserviceable items
3. *Describe* required maintenance techniques

Requisite Skills

1. Sharpen assigned suppression equipment
2. Maintenance techniques for assigned suppression equipment
3. Use required maintenance equipment

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|-----------|
| Fire Fighter 1C <ul style="list-style-type: none">• Topic 2-6 | 9-2: Maintain Hand Tools and Equipment | (CTS 9-2) |

9-3: Maintaining Personal Gear Kit

Authority

1. NFPA 1140: Standard for Wildland Fire Protection (2022)
 - Paragraph 4.4.4

Job Performance Requirement

Maintain personal gear kit, given a deployment and AHJ policies, so that mobilization response readiness meets AHJ requirements.

Requisite Knowledge

1. *Describe* contents of a personal gear kit
2. *Identify* type and duration of the incident
3. *Describe* AHJ requirements

Requisite Skills

1. None specified

Content Modification

| Block | Modification | Justification |
|-------|--------------|---------------|
| | | |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-------------------------------------|-------------------------------------|
| Fire Fighter 1C <ul style="list-style-type: none">• Topic 2-7 | Cognitive only – no testable skills | Cognitive only – no testable skills |

Section 10: Suppression

10-1: Assembling and Preparing for Response

Authority

1. NFPA 1140: Standard for Wildland Fire Protection (2022)
 - Paragraph 4.6.2
2. Office of the State Fire Marshal

Job Performance Requirement

Assemble and prepare for response, given an assembly location, an assignment, incident location, mode of transportation, and time requirements, so that arrival at the incident with the required personnel and equipment meets AHJ guidelines.

Requisite Knowledge

1. *Identify* equipment required for response
2. *Describe* AHJ time standards and special transportation considerations
3. *Describe* AHJ safety response guidelines
4. *Describe* operational procedures for various response modes

Requisite Skills

1. None specified

Content Modification

| Block | Modification | Justification |
|-------|--|--|
| RK1 | Changed “requirements” to “required for response”. | Clarification. The student isn’t identifying the requirements of the equipment, they are identifying what equipment is required based on what the incident requires. |
| RK2 | Removed “(weight considerations)”. | Weight is not the only special transportation consideration. |
| RK3 | Added “response guidelines”. | Narrowing the scope of “agency safety” to pertain to the JPR. |
| RK4 | Changed “transportation” to “response”. | Transportation implies the type of vehicle in which the responders are traveling to the incident, not the response level. Revised for clarification. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|---|------------|
| Fire Fighter 1C <ul style="list-style-type: none">• Topic 3-1 | 10-1: Assemble and Prepare for Response | (CTS 10-1) |

10-2: Recognizing Hazards and Unsafe Situations

Authority

1. NFPA 1140: Standard for Wildland Fire Protection (2022)
 - Paragraph 4.6.3
2. Office of the State Fire Marshal

Job Performance Requirement

Recognize hazards and unsafe situations, given a wildland or wildland/urban interface fire *or simulated scenario* and the standard safety policies and procedures of the AHJ, so that the hazard(s) and unsafe condition(s) are communicated to the supervisor and appropriate action is taken.

Requisite Knowledge

1. *Describe* basic wildland fire safety
2. *Describe* basic wildland fire behavior
3. *Identify* basic wildland suppression methods
4. *Describe the Standard Fire Fighting Orders*
5. *Describe the Situations that Shout “Watch Out”*
6. *Describe the principles of LCES (Lookouts, Communications, Escape Routes, Safety Zones)*
7. *Describe downhill checklist guideline*
8. *Describe Common Denominators of Fire Behavior on Tragedy Fires*
9. *Describe human factors that impact wildland fire suppression*

Requisite Skills

1. *Demonstrate knowledge of the Standard Fire Orders, the Situations that Shout “Watch Out”, and LCES*

Content Modification

| Block | Modification | Justification |
|-------|--------------------------------|--|
| JPR | Added “or simulated scenario”. | Allows option to complete testing outside of a live wildland fire. |
| RK2 | Added “basic wildland”. | Added to narrow the scope of “fire behavior”. |
| RK3 | Added “basic wildland”. | Added to narrow the scope of “suppression methods”. |
| RK4 | Added knowledge component. | Added to align with NWCG S-130 fire fighter training. |
| RK5 | Added knowledge component. | Added to align with NWCG S-130 fire fighter training. |
| RK6 | Added knowledge component. | Added to align with NWCG S-130 fire fighter training. |
| RK7 | Added knowledge component. | Not covered by NFPA 1051 but it is an IRPG industry standard. |

Fire Fighter 1 – Wildland
Section 10: Suppression

| | | |
|-----|----------------------------|---|
| RK8 | Added knowledge component. | Not covered by NFPA 1051 but it is an IRPG industry standard. |
| RK9 | Added knowledge component. | NFPA does include human factors. |
| RS1 | Added skills component. | Added to align with NWCG S-130 fire fighter training |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|--|---|------------|
| Fire Fighter 1C <ul style="list-style-type: none"> • Topic 2-1: RK2 • Topic 2-2: RK1, RK4, RK5, RK6, RK7, RK8, RS1 • Topic 2-3: RK9 • Topic 3-2: RK3 | 10-2a: Use Incident Response Pocket Guide 10-2b: Assume Safety Position for Retardant Drop | (CTS 10-2) |

10-3: Constructing a Fireline

Authority

1. NFPA 1140: Standard for Wildland Fire Protection (2022)
 - Paragraph 4.6.4
2. Office of the State Fire Marshal

Job Performance Requirement

Construct a fireline, given a wildland fire *or simulated scenario*, AHJ line construction standards, suppression tools, water or other suppression agents, and equipment, so that the fireline conforms to the construction standard.

Requisite Knowledge

1. *Describe basic wildland suppression strategy*
2. *Identify basic wildland suppression tactics*
3. *Describe fireline construction principles, techniques, and standards*
4. *Describe safety considerations related to fireline construction*
5. *Describe how to construct a handline*
6. *Describe how to perform mobile attack*
7. *Describe how to perform a simple hose lay*
8. *Describe how to perform a progressive hose lay*
9. *Describe how to retrieve hose*

Requisite Skills

1. Use hand tools properly
2. *Apply* fire streams
3. *Apply* extinguishing agents

Content Modification

| Block | Modification | Justification |
|-------|--------------------------------|---|
| JPR | Added “or simulated scenario”. | Allows option to complete testing outside of a live wildland fire. |
| RK1 | Added knowledge component. | Statewide operational activities require more detail than provided by NFPA. |
| RK2 | Added knowledge component. | Statewide operational activities require more detail than provided by NFPA. |
| RK3 | Changed the word order. | Revised to simplify and clarify language. |
| RK4 | Added knowledge component. | Not covered by NFPA 1051 but it is an IRPG industry standard. |
| RK5 | Added knowledge component. | Statewide operational activities require more detail than provided by NFPA. |

Fire Fighter 1 – Wildland
Section 10: Suppression

| | | |
|---------------|----------------------------|---|
| RK6 | Added knowledge component. | Statewide operational activities require more detail than provided by NFPA. |
| RK7 | Added knowledge component. | Statewide operational activities require more detail than provided by NFPA. |
| RK8 | Added knowledge component. | Statewide operational activities require more detail than provided by NFPA. |
| RK9 | Added knowledge component. | Statewide operational activities require more detail than provided by NFPA. |
| RS1, RS2, RS3 | Revised to put verb first. | Consistency with all other RS text. |
| RS 3 | Added “extinguishing”. | Added to clarify agent type. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|---|------------|
| Fire Fighter 1C <ul style="list-style-type: none"> • Topic 3-2 | 10-3a: Assemble, Use, and Maintain a Back Pump 10-3b: Perform a Progressive Hose Lay (Hose) 10-3b: Perform a Progressive Hose Lay (Nozzle) 10-3c: Construct a Fireline Using Hand Tools 10-3d: Perform Mobile Pumping | (CTS 10-3) |

10-4: Securing the Fireline

Authority

1. NFPA 1140: Standard for Wildland Fire Protection (2022)
 - Paragraph 4.6.5
2. Office of the State Fire Marshal

Job Performance Requirement

Secure the fireline, given a wildland fire *or simulated scenario*, suppression tools, water or other suppression agents, and equipment, so that *fireline* burning materials and unburned fuels are located and *physically separated*.

Requisite Knowledge

1. *Describe* line improvement techniques
2. *Identify* safety considerations
3. *Describe how to use basic ignition devices*

Requisite Skills

1. Use basic ignition devices only under direct supervision

Content Modification

| Block | Modification | Justification |
|-------|--------------------------------|--|
| JPR | Added “or simulated scenario”. | Allows option to complete testing outside of a live wildland fire. |
| JPR | Adjusted language. | NFPA standard for JPR was unclear and abatement is not always possible. |
| RK3 | Added a knowledge component. | Not included in NFPA 1051 but required by Cal OES. All type III engines must carry a drip torch. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|--|------------|
| Fire Fighter 1C <ul style="list-style-type: none">• Topic 3-3 | 10-4a: Ignite and Extinguish Road Flares and Fusees 10-4b: Assemble, Ignite, Extinguish, and Disassemble a Drip Torch | (CTS 10-4) |

10-5: Reducing the Threat of Fire Exposure to Improved Properties

Authority

1. NFPA 1140: Standard for Wildland Fire Protection (2022)
 - Paragraph 4.6.6
2. Office of the State Fire Marshal

Job Performance Requirement

Describe the methods to reduce the threat of fire exposure to improved properties, given a wildland/urban interface fire *or simulated scenario*, suppression tools, and equipment, so that improvements are protected.

Requisite Knowledge

1. *Describe* wildland fire behavior *within the wildland/urban interface*
2. *Describe* wildland fuel removal *for structure defense preparation*
3. *Describe* structure defense methods
4. *Identify* equipment and personnel capabilities *within the wildland/urban interface*
5. *Identify the difference between a safety zone and a temporary refuge area (TRA)*

Requisite Skills

1. Use methods to protect improvements

Content Modification

| Block | Modification | Justification |
|-------|--|---|
| JPR | Added “or simulated scenario”. | Allows option to complete testing outside of a live wildland fire. |
| RK1 | Added “within the wildland/urban interface”. | Expanding wildland fire behavior (covered in CTS 10-2) to include wildland/urban interface. |
| RK2 | Added “for structure defense preparation”. | Added to clarify the purpose and location of removal. |
| RK3 | Replaced “protection” with “defense”. | “Defend” is California terminology. |
| RK4 | Added “within the wildland/urban interface”. | Expanding wildland fire behavior (covered in CTS 10-2) to include wildland/urban interface. |
| RK5 | Added knowledge component. | NFPA does not adequately address safety. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|-----------------------------------|------------|
| Fire Fighter 1C <ul style="list-style-type: none"> • Topic 3-4 | 10-5: Prep and Defend a Structure | (CTS 10-5) |

10-6: Mopping Up a Fire Area

Authority

1. NFPA 1140: Standard for Wildland Fire Protection (2022)
 - Paragraph 4.6.7
2. Office of the State Fire Marshal

Job Performance Requirement

Mop up fire area, given a wildland fire *or simulated scenario*, suppression tools, and water or other suppression agents and equipment, so that burning fuels that threaten escape are located and extinguished.

Requisite Knowledge

1. *Describe* mop up principles, techniques, and standards

Requisite Skills

1. Use basic tools and techniques to perform mop-up operations

Content Modification

| Block | Modification | Justification |
|-------|--------------------------------|--|
| JPR | Added “or simulated scenario”. | Allows option to complete testing outside of a live wildland fire. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|---------------------------------|------------|
| Fire Fighter 1C <ul style="list-style-type: none">• Topic 3-5 | 10-6: Perform Mop Up Operations | (CTS 10-6) |

10-7: Patrolling the Fire Area

Authority

1. NFPA 1140: Standard for Wildland Fire Protection (2022)
 - Paragraph 4.6.8
2. Office of the State Fire Marshal

Job Performance Requirement

Patrol the fire area, given a wildland fire *or simulated scenario*, suppression tools, and equipment, so that containment of the fire area is maintained.

Requisite Knowledge

1. *Describe* patrol principles, techniques, and standards

Requisite Skills

1. Observe, identify, and take action on potential threats *when patrolling fire areas*

Content Modification

| Block | Modification | Justification |
|-------|-----------------------------------|--|
| JPR | Added “or simulated scenario”. | Allows option to complete testing outside of a live wildland fire. |
| RS1 | Added “to patrolling fire areas”. | Revised to narrow scope of requisite knowledge application. |

Cross Reference

| Course Plan | Skill Sheet(s) | Task Book |
|---|----------------------------|------------|
| Fire Fighter 1C <ul style="list-style-type: none">• Topic 3-6 | 10-7: Patrol the Fire Area | (CTS 10-7) |

Revisions

This page documents changes made to the CTS guide since its initiation publication.

August 2020

The August 2020 changes reflect updates based on the 2020 edition of NFPA 1051 Standard for Wildland Firefighting Personnel Professional Qualifications. The staff review determined the following minor changes.

NFPA:

- All instances
 - Replaced the word “agency” with “AHJ”
- Paragraph 4.1.1
 - Added “AHJ required” to “first aid” in requisite knowledge
 - Removed “and NFES 2943, Wildland Fire Incident Management Field Guide” in requisite knowledge
- Paragraph 4.3.4
 - Added a new job performance requirement
- Paragraph 4.5.4
 - Replaced “correctly” with “properly” in requisite skills
- Paragraph 4.5.8
 - Replaced the word “control” with “containment” in JPR
 - Replaced “Apply requisite knowledge” with “Observe, identify, and take action on potential threats” in requisite skills

Impact

- Made all editorial changes
- Added the new JPR to the CTS guide as standard 9-3: Maintaining a Personal Gear Kit
- Added the new JPR to the Fire Fighter 1C: Wildland Fire Fighter course plan as Topic 2-7: Maintaining Personal Gear Kit
 - Most of the Topic 2-7 material was already covered in Topic 3-1: Assembling and Preparing for Response.
 - Moved the Application activity from 3-1 to 2-7
 - Adjusted time between 3-1 and 2-7
 - No addition to the certification task book and no skill sheet
 - No changes to time or cost for course delivery and/or testing

Documents Changed

- Fire Fighter 1 Certification Training Standards Guide (2019)
- Fire Fighter 1C: Wildland Fire Fighter Course Plan

- All Wildland skill sheets (9-1 through 9-2 and 10-1 through 10-7) to reflect NFPA edition number and editorial changes

August 2020

The December 2020 change added *Wildland Fire Fighter: Principles and Practice* (Jones and Bartlett Learning, 2nd edition, ISBN: 978-1-284-04211-5) textbook as an alternate option to *Wildland Fire Fighter: Principles and Practice* (Fire Protection Publications, Oklahoma State University, 4th edition, ISBN: 978-087939676-3) for Fire Fighter 1C: Wildland.

May 2022

Documents Changed

- Fire Fighter 1A: Skill Sheet 3-15 Hose Lay.

February 2023

The February 2023 changes reflect updates to align with the following standards:

- NFPA 470: Hazardous Materials/Weapons of Mass Destruction (WMD) Standards for Responders (2022)
- NFPA 1140: Standard for Wildland Fire Protection (2022)

Neither NFPA standard added or removed job performance requirements. All changes were linguistic.

Fire Fighter 1 Certification Training Standards Guide (2019)

- Replaced all references to NFPA 1072 with NFPA 470
- Replaced all references to NFPA 1051 with NFPA 1140
- Updated language in the following standards:
 - 5-1: Description of Duties (Awareness)
 - 5-2: Recognizing and Identifying Hazardous Materials/WMD and Associated Hazards
 - 5-3: Isolating the Hazard Area and Denying Entry
 - 5-4: Initiating Required Notifications
 - 6-2: Identifying the Scope of a Hazardous Materials/WMD Incident
 - 6-3: Identifying Tactics for a Hazardous Materials/WMD Incidents
 - 6-4: Performing Assigned Tasks at a Hazardous Materials/WMD Incident
 - 6-6: Evaluating and Reporting Progress for a Hazardous Materials/WMD Incident
 - 7-1: Selecting, Donning, Working In, and Doffing Approved PPE at a Hazardous Materials/WMD Incident
 - 7-2: Performing Product Control Techniques at a Hazardous Materials/WMD Incident
 - 8-1: Role of the Wildland Fire Fighter

- 10-2: Recognizing Hazards and Unsafe Situations
- 10-4: Securing the Fireline

Fire Fighter 1B: Hazardous Materials/WMD (2017) course plan

- Cover – Course title updated to: Fire Fighter 1B: Hazardous Materials/WMD (2022) to reflect new NFPA edition
- Footer – Updated to: Revised April 2023
- Topic 2-1: Description of Duties (Awareness)
 - Added “level”
- Topic 2-2: Recognizing and Identifying Hazardous Materials/WMD and Associated Hazards
 - Added five ELOs
 - Updated seven ELOs
- Topic 2-3: Isolating the Hazard Area and Denying Entry
 - Added two ELOs
 - Updated one ELO
- Topic 2-4: Initiating Required Notifications
 - Removed three ELOs
 - Removed one Instructor Note
- Topic 3-2: Identifying the Scope of a Hazardous Materials/WMD Incident
 - Minor update to JPR
 - Added two ELOs
 - Updated six ELOs
 - Removed two ELOs
- Topic 3-3: Selecting, Donning, Working In, and Doffing Approved PPE at a Hazardous Materials/WMD Incident
 - Minor update to JPR
 - Updated one ELO
- Topic 3-4: Performing Emergency Decontamination at a Hazardous Materials/WMD Incident
 - Added one ELO
 - Updated one ELO
- Topic 3-5: Identifying Tactics for a Hazardous Materials/WMD Incident
 - Updated title
 - Minor update to JPR
 - Added one ELO
 - Updated five ELOs
- Topic 3-6: Performing Assigned Tasks at a Hazardous Materials/WMD Incident
 - Minor update to JPR
 - Added three ELOs
 - Updated four ELOs
- Topic 3-7: Performing Product Control Techniques at a Hazardous Materials/WMD Incident

- Updated one ELO
- Topic 3-8: Evaluating and Reporting Progress for a Hazardous Materials/WMD Incident
 - Minor update to JPR
 - Added one ELO
 - Updated three ELOs
- Fire Fighter 1C: Wildland (2020) course plan
 - Cover – Course title updated to: Fire Fighter 1C: Wildland (2022) to reflect new NFPA edition
 - Footer – Updated to: Revised April 2023
 - Instructor Resources – NFPA title and number updated to: NFPA 1140: Standard for Wildland Fire Protection (current edition)
- Fire Fighter 1 and 2 (2019) Training Record
 - Updated the title of Skill Sheet 6-3 in the Fire Fighter 1B: Hazardous Materials/WMD segment of the Training Record
 - There is no impact the Fire Fighter 1C: Wildland segment of the Training Record
- Fire Fighter 1B: HazMat Skill Sheets
 - Update NFPA title number and paragraph number on all skill sheets
 - Skill Sheet 6-3 – Minor language update
 - Skill Sheet 6-4 – Minor language update
 - Skill Sheet 6-6 – Minor language update
 - Skill Sheet 7-2 – Minor language update
- Fire Fighter 1C: Wildland Skill Sheets
 - Update NFPA title number and paragraph number on all skill sheets
- Fire Fighter Certification Task Book (2019)
 - Replaced all references to NFPA 1072 with NFPA 470
 - Replaced all references to NFPA 1051 with NFPA 1140
 - Fire Fighter 1: Hazardous Materials/WMD section
 - Updated all NFPA paragraph numbers
 - JPR 1 – Minor language update
 - JPR 4 – Minor language update
 - JPR 5 – Minor language update
 - JPR 6 – Minor language update
 - JPR 8 – Minor language update
 - JPR 9 – Minor language update
 - Fire Fighter 1: Wildland sections
 - Updated all NFPA paragraph numbers
 - JPR 10 - Minor language update