
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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State Fire Training

Mission

To enable the California Fire Service to safely protect life and property through education, training, and certification.

The California Fire Services Training and Education System

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

CFSTES facilitates, coordinates, and assists in the development and implementation of standards and certification for the California fire service. CFSTES:

1. Administers the California Fire Academy System
2. Provides accredited courses leading to certification and approved standardized training programs for local and regional delivery
3. Administers the national accreditation process in California
4. Publishes certification training standards, course plans, and a capstone task book for each certified level in the California fire service

CFSTES is a fire service system developed by the fire service, for the fire service. It is only as successful and effective as the people involved in it.
Acknowledgments

State Fire Training appreciates the hard work and accomplishments of those who built the solid foundation on which this program continues to grow.

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How to Read a CTS Guide

State Fire Training develops a Certification Training Standards (CTS) Guide for a variety of job functions in the fire service such as firefighter, driver/operator, fire instructor, and company officer. The CTS guide lists the requisite knowledge and skills and the job performance requirements a person is expected to complete in order to become certified in a specific function. CTS guides are appropriate for fire service personnel and individuals in related occupations pursuing State Fire Training certification.

Each CTS guide serves as a foundation for the certification programs recommended for adoption by the Office of the State Fire Marshal. Any certification program must be based on job-related knowledge and measurable performance standards. To master the knowledge and skills needed for specialized operations, individuals will require additional training to augment the performance standards included in the CTS guide.

Within the CTS guide, it is impossible to capture the different policies and procedures of each organization in the California fire service. 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 departments or jurisdictions.

Format

Each certification training standard included in the CTS guide includes the following:

Section Heading
The section heading describes a general category for a group of training standards. For example, the Fire Marshal CTS includes the following sections: Administration, Risk Management, Community Relations, Professional Development, Regulatory Programs, Fire and Life Safety, and Investigation. Each section contains one or more individual training standards.

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

Authority
The CTS guide references each 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.
How to Read a CTS Guide

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*.

**Given**
This section lists the objects, equipment, materials, or facilities an individual needs in order to acquire the requisite knowledge and skills or to accomplish the job performance requirement(s) within a training standard.

**Requisite Knowledge and Skills**
This section lists the knowledge and skills that an individual must acquire in order to accomplish the job performance requirement(s) within a training standard.

This section does not include NFPA requisite knowledge or skills that are too general to teach or that individuals should develop through life experiences. For example, a training standard would not list “communicate orally and in writing” or “ability to relate interpersonally” unless they specifically apply to a job performance requirement about acquiring communication skills or developing interpersonal relationships.

**Job Performance Requirements**
This section includes one or more written statements that describe a specific job-related task and define measurable or observable outcomes. After an individual completes all coursework and requisite requirements, the capstone task book process verifies completion of job performance requirements.

**Content**
In addition to the individual certification training standards, the CTS guide also includes State Fire Training Revisions and Errata pages.

**State Fire Training Content**
Located at the back of the CTS guide, this table documents any significant revisions made by State Fire Training to the NFPA standards in the development of this CTS guide. This table is used to justify content additions and advise the course plan development team.

**Errata**
Located at the back of the CTS guide, this page documents any changes made to the CTS guide outside of the five-year NFPA revision cycle.
Fire Inspector II
Section 1: Definition of Duties

1-1: Definition of Duties for Fire Inspector II

Authority
   - Paragraph 5.2
   - Paragraph 5.3
   - Paragraph 5.4
   - Paragraph 6.2
   - Paragraph 6.3
2. Office of the State Fire Marshal

Given

Requisite Knowledge and Skills
1. Identify the administrative duties of a Fire Inspector II
   - Conducting research
   - Interpreting codes
   - Implementing policy
   - Testifying at legal proceedings
   - Creating forms and job aids
   - Recommending, creating, and evaluating policies and procedures for life safety inspections and code enforcement activities
2. Identify the field inspection duties of a Fire Inspector II
   - Conducting code enforcement inspections
   - Analyzing new and existing structures and properties for construction, occupancy, fire protection, and exposures
   - Analyzing code compliance alternatives
   - Evaluating construction, occupancy, fire protection, and exposures
   - Evaluating emergency planning services
3. Identify the plan review duties of a Fire Inspector II
   - Field verifying shop drawings, plans and construction documents to ensure that they meet the intent of applicable codes and standards for fire and life safety
4. Describe how one's ethics and core values impact the work environment
Fire Inspector II
Section 1: Definition of Duties

Job Performance Requirements
There are no job performance requirements identified for this training standard.
Section 2: Administration

2-1: Processing Permit Applications

Authority
• Paragraph 5.2.1

Given
1. A specific request

Requisite Knowledge and Skills
1. Describe the permit application process
2. Identify applicable codes, standards, policies, and procedures of the jurisdiction
3. Apply requisite knowledge

Job Performance Requirements
Evaluate and process a permit application to issue or deny a permit in accordance with applicable codes and standards and jurisdictional policies.
2-2: Processing Plan Review Applications

Authority
- Paragraph 5.2.2

Given
1. A specific request

Requisite Knowledge and Skills
1. Describe the plan review application process
2. Discuss the code requirements of the jurisdiction
3. Identify the policies and procedures of the jurisdiction
4. Communicate orally and in writing on matters related to code requirements, policies, and procedures of the jurisdiction

Job Performance Requirements
Evaluate and process a plan review application in accordance with applicable codes and standards and jurisdictional policies.
2-3: Investigating Complex Complaints

Authority
   - Paragraph 5.2.3
2. Office of the State Fire Marshal

Given
1. A reported situation or condition

Requisite Knowledge and Skills
1. Describe methods and procedures to record, validate, and resolve complex complaints
2. Identify applicable codes, standards, and policies adopted by the jurisdiction
3. Discuss how political pressures impact complaint investigation and resolution
4. Interpret codes and standards as they apply to the resolution of a complex complaint
5. Recognize problems during the investigation of a complex complaint
6. Refer complaints to other agencies when required

Job Performance Requirements
Investigate complex complaints in order to record complaint information, initiate the investigation process, and resolve the complaint in accordance with application codes and standards and jurisdictional policies.
2-4: Recommending Modifications to Codes and Standards

Authority
- Paragraph 5.2.4

Given
1. A fire safety issue

Requisite Knowledge and Skills
1. Describe state statutes or local ordinances establishing or empowering the agency to adopt, enforce, and revise codes and standards
2. Describe the legal instruments establishing or adopting codes and standards
3. Describe the development and adoption process for fire and life safety legislation or regulations
4. Recognize problems with adopted codes and standards, and collect and develop potential solutions
5. Identify cost/risk benefits of modifying codes and standards

Job Performance Requirements
Recommend modifications to the adopted codes and standards of the jurisdiction that address a problem, need, or deficiency.
2-5: Recommending Policies and Procedures for Inspection Services

Authority
- Paragraph 5.2.5

Given
1. Management objectives

Requisite Knowledge and Skills
1. Identify the policies and procedures of the jurisdiction related to code enforcement
2. Describe sources of detailed and technical information relating to fire protection and life safety
3. Identify approved construction methods and materials related to fire safety
4. Read and interpret construction plans and specifications
5. Educate supervisors in the need for new policies and procedures
6. Conduct research in order to gather or create supporting documentation
7. Recognize problems with existing policies and procedures

Job Performance Requirements
Recommend policies and procedures for delivering inspection services that are in accordance with jurisdictional policies and follow due process of the law.
2-6: Generating Written Appeals Correspondence

Authority
• Paragraph 6.2.1

Given
1. A request for an appeal

Requisite Knowledge and Skills
1. Discuss the established procedure for modification of applicable codes and standards for the jurisdiction
2. Identify the judicial review process for the jurisdiction
3. Describe the established appeals procedure for the jurisdiction
4. Interpret codes and standards and communicate requirements via written appeals correspondence
5. Evaluate requests for appeal and make decisions related to the appeals process
6. Issue written reports as required by jurisdictional appeals procedure

Job Performance Requirements
Generate written correspondence related to the issuance of appeals that clearly addresses the issue and is appropriate for the intended audience.
2-7: Proposing Technical Reference Material Acquisition

Authority
  • Paragraph 6.2.5

Given
1. A scope of responsibility
2. Budget limitations
3. Specific code-related issues

Requisite Knowledge and Skills
1. Identify types and sources of publications, including:
   • Approval and listings guides
   • Codes and standards
   • Technical references
2. Recognize the need for materials
3. Identify correct materials for specific needs
4. Calculate budget impact of material acquisition
5. Make decisions regarding acquisition priorities

Job Performance Requirements
Propose the acquisition of technical reference materials that meet specific needs.
2-8: Enforcing Permit Regulations

Authority
- Paragraph 6.2.6

Given
1. A permit application or report of a violation
2. Applicable codes and standards and policies of the jurisdiction

Requisite Knowledge and Skills
1. Describe legal authority for permit issuance and revocation
2. Identify applicable codes and standards adopted by the jurisdiction
3. Make decisions about permit violations and communicate as necessary to enforce regulations
4. Evaluate consequences of improper enforcement

Job Performance Requirements
Enforce permit regulations in accordance with applicable codes and standards and jurisdictional policies and mitigate violations.
2-9: Initiating Legal Action

Authority
- Paragraph 6.2.7

Given
1. A description of a violation
2. A legal opinion

Requisite Knowledge and Skills
1. Describe legal procedure for fire code enforcement
2. Discuss authority and limitations of police powers
3. Address legal action in accordance with the policies and procedures of the jurisdiction

Job Performance Requirements
Initiate legal action related to a fire code violation in accordance with jurisdictional policies and due process of the law.
2-10: Evaluating Inspection Reports

Authority
• Paragraph 6.2.9

Given
1. Applicable codes, standards, policies, and procedures of the jurisdiction

Requisite Knowledge and Skills
1. Identify applicable codes and standards adopted by the jurisdiction and their interrelationships
2. Identify various sources for additional reference materials related to code enforcement
3. Describe how to evaluate completed inspection reports, forms, and checklists
4. Demonstrate familiarity with code-related research
5. Compare code requirements of a jurisdiction with prepared inspection reports
6. Provide corrective information or correction to subordinate's inspection reports where necessary

Job Performance Requirements
Evaluate inspection reports and completed forms and checklists for correct, clear, and concise information.
Section 3: Field Inspection

3-1: Computing the Maximum Occupant Load of a Multi-use Building

Authority
  • Paragraph 5.3.1

Given
1. Field observations or a description of a building’s uses

Requisite Knowledge and Skills
1. Describe how to calculate occupant loads for an occupancy and for building use
2. Describe code requirements, regulations, operational features, and fire hazards presented by various occupancies
3. Calculate occupant loads
4. Identify occupancy factors related to various occupancy classifications
5. Use measuring tools, including a calculator, to compute the maximum allowable occupant load of a multi-use building

Job Performance Requirements
Compute the maximum allowable occupant load of a multi-use building in accordance with applicable codes and standards.
3-2: Classifying Occupancy in a Mixed-use Building

**Authority**
- Paragraph 5.3.2

**Given**
1. A description of a building’s uses

**Requisite Knowledge and Skills**
1. Describe the occupancy classification, applicable codes and standards, operational features, and fire hazards presented by various occupancies
2. Interpret code requirements and recognize building uses that fall into each occupancy classification

**Job Performance Requirements**
Identify the occupancy classification of a mixed-use building in accordance with applicable codes and standards.
3-3: Evaluating Buildings

Authority
   - Paragraph 5.3.3
2. Office of the State Fire Marshal

Given
1. An approved set of plans
2. Construction features

Requisite Knowledge and Skills
1. Describe how to evaluate a building’s area, height, and occupancy classification
2. Describe building construction with an emphasis on fire-rated construction
3. Describe how to evaluate and analyze construction methods and assemblies for fire rating
4. Interpret analysis of test results
5. Discuss manufacturer’s specifications
6. Identify characteristics of each type of building construction and occupancy classification

Job Performance Requirements
Evaluate a building’s area, height, occupancy classification, and construction type to verify the building is in accordance with applicable codes and standards.
3-4: Evaluating Fire, Life Safety, and Property Protection Equipment

Authority
NFPA 1031 Standard for Professional Qualifications for Fire Inspectors and Plan Examiners (2009)
- Paragraph 5.3.4

Given
1. Field observations of the facility and documentation
2. The hazards protected
3. System specifications

Requisite Knowledge and Skills
1. Identify applicable codes and standards for fire protection systems
2. Discuss basic physical science as it relates to fire behavior and fire suppression
3. Discuss implications and hazards associated with system operation
4. Describe installation techniques and acceptance inspection
5. Describe testing and reports of maintenance of completed installations
6. Describe the use and function of various systems
7. Recognize problems with fire protection systems and equipment
8. Use codes and standards to evaluate fire protection systems and equipment
9. Read reports, plans, and specifications to determine whether life safety and property protection measures are appropriate for the protected occupancies or hazards

Job Performance Requirements
Evaluate fire protection systems and equipment provided for life safety and property protection to approve them for the protected occupancy or hazard.
3-5: Analyzing Egress Elements

Authority
- Paragraph 5.3.5

Given
1. Observations made during a field inspection

Requisite Knowledge and Skills
1. Describe acceptable means of egress devices
2. Calculate egress requirements
3. Make decisions related to the adequacy of egress

Job Performance Requirements
Analyze the egress elements of a building or portion of a building to verify the provision and location of egress elements in accordance with applicable codes and standards and identify, document, and report deficiencies in accordance with jurisdictional policies.
3-6: Evaluating Hazardous Conditions Involving Equipment, Processes, and Operations

Authority
- Paragraph 5.3.6

Given
1. Field observations
2. Documentation

Requisite Knowledge and Skills
1. Identify applicable codes and standards
2. Describe accepted fire protection practices
3. Identify ignition sources related to hazardous conditions, equipment, and processes
4. Describe safe housekeeping practices
5. Identify additional reference materials related to protection of hazardous processes and code enforcement
6. Observe hazardous conditions created by installation of equipment, processes and operations
7. Recognize problems with equipment, processes, and operations involving hazardous conditions
8. Interpret codes and communicate deficiencies in accordance with the policies of the AHJ

Job Performance Requirements
Evaluate hazardous conditions involving equipment, processes, and operations to verify installation in accordance with applicable codes and standards and identify, document, and report deficiencies in accordance with jurisdictional policies.
3-7: Evaluating Emergency Planning and Preparedness Procedures

Authority
   - Paragraph 5.3.7
2. Office of the State Fire Marshal

Given
1. Existing or proposed plans
2. Procedures and applicable codes and standards

Requisite Knowledge and Skills
1. Describe the occupancy requirements for emergency evacuation plans
2. Describe fire safety programs for crowd control
3. Identify the roles of agencies and individuals in implementation and development of emergency plans
4. Describe how to evaluate emergency planning and preparedness procedures to determine applicability to the facility
5. Compare submitted plans and procedures with applicable codes and standards adopted by the jurisdiction

Job Performance Requirements
Evaluate emergency planning and preparedness procedures to determine compliance.
3-8: Verifying Code Compliance for Storage, Handling, and Use of Flammable and Combustible Liquids and Gases

Authority
  • Paragraph 5.3.8

Given
1. Field observations
2. Inspection guidelines from the authority having jurisdiction

Requisite Knowledge and Skills
1. Describe the properties and hazards of flammable and combustible liquids and gases
2. Discuss material safety data sheet
3. Describe safe handling practices for flammable and combustible liquids and gases
4. Identify applicable codes and standards
5. Describe fire protection systems and equipment approved for the material
6. Describe fire behavior as it relates to flammable and combustible liquids and gases
7. Identify safety procedures
8. Identify storage compatibility requirements
9. Identify typical fire hazards associated with processes or operations utilizing flammable and combustible liquids
10. Observe and recognize problems with storage, handling, and use of flammable and combustible liquids and gases
11. Interpret codes in order to make decisions related to the compliant storage, handling, and use of flammable and combustible liquids and gases
12. Communicate deficiencies in accordance with applicable codes and standards and jurisdictional policies

Job Performance Requirements
Verify code compliance for storage, handling, and use of flammable and combustible liquids and gases to identify, document, and report deficiencies in accordance with applicable codes and standards and jurisdictional policies.
3-9: Evaluating Code Compliance for the Storage, Handling, and Use of Hazardous Materials

Authority
- Paragraph 5.3.9

Given
1. Field observations

Requisite Knowledge and Skills
1. Describe the properties and hazards associated with hazardous materials
2. Discuss material safety data sheet
3. Describe safe handling, use, and dispensing practices for hazardous materials
4. Identify applicable codes and standards
5. Describe fire protection systems and equipment approved for the material
6. Describe fire behavior as it relates to hazardous materials
7. Identify safety procedures
8. Describe chemical reactions
9. Identify storage compatibility requirements
10. Describe how to determine maximum allowable quantities (MAQ)
11. Describe control areas
12. Describe how to evaluate control areas as they relate to hazardous materials storage
13. Describe general requirements for quantities not exceeding maximum allowable quantities per control area
14. Identify fire hazards associated with processes or operations utilizing hazardous materials
15. Describe the requirements for, and contents of, a Hazardous Materials Management Plan
16. Observe and recognize problems with storage, handling, and use of hazardous materials
17. Interpret codes in order to make decisions related to the compliant storage, handling, and use of hazardous materials
18. Communicate deficiencies in accordance with applicable codes and standards and jurisdictional policies

Job Performance Requirements
Evaluate code compliance for the storage, handling, and use of hazardous materials to identify, document, and report deficiencies in accordance with applicable codes and standards and jurisdictional policies.
3-10: Determining Fire Growth Potential

Authority
   - Paragraph 5.3.10
2. Office of the State Fire Marshal

Given
1. Field observations or plans

Requisite Knowledge and Skills
1. Describe flame spread and smoke development ratings of:
   - Contents
   - Interior finishes
   - Building construction elements
   - Decorations
   - Decorative materials
   - Furnishings
2. Describe how to determine compliance of contents, interior finish, and construction elements
3. Describe how to identify, document, verify, and report or resolve deficiencies
4. Discuss safe housekeeping practices
5. Communicate deficiencies in building contents, interior finishes, and construction elements
6. Interpret codes and standards related to building contents, interior finishes, and construction elements
7. Recognize hazardous conditions and make decisions regarding corrections

Job Performance Requirements
Determine fire growth potential in a building or space by evaluating the contents, interior finishes and construction elements for compliance, and identify, document, and correct deficiencies in accordance with applicable codes and standards and jurisdictional policies.
3-11: Verifying Installation, Inspection, and Testing of Life Safety Systems and Building Services Equipment

Authority
  • Paragraph 5.3.11

Given
1. A performance-based design

Requisite Knowledge and Skills
1. Describe applicable codes and standards for installation and testing of fire protection systems
2. Describe how to verify that means of egress are installed, inspected, and tested to perform as designed
3. Describe how to verify that building services equipment is installed, inspected, and tested to perform as designed
4. Witness and document tests of fire protection systems and building services equipment

Job Performance Requirements
Verify that life safety systems and building services equipment are installed, inspected, and tested to perform as described in the engineering documents and the operations and maintenance manual that accompanies the design to identify, document, and report deficiencies in accordance with applicable codes and standards and jurisdictional policies.
3-12: Verifying Code Compliance of Building Service Equipment and Operations

Authority
- Paragraph 5.3.12

Given
1. Field observations

Requisite Knowledge and Skills
1. Describe types, installation, maintenance, and use of building service equipment
2. Describe the operation of smoke and heat vents
3. Describe the installation of kitchen cooking equipment (including hoods and ducts), laundry chutes, elevators, and escalators
4. Identify applicable codes and standards adopted by the jurisdiction
5. Observe and recognize problems with HVAC and other building service equipment and operations
6. Interpret codes and standards related to building service equipment and write reports to document deficiencies

Job Performance Requirements
Verify code compliance of heating, ventilation, air conditioning, and other building service equipment and operations to verify maintenance in accordance with applicable codes and standards and identify, document, and report deficiencies in accordance with jurisdictional policies.
3-13: Assessing Alternative Methods to Adjust Occupant Loads

Authority
- Paragraph 6.3.1

Given
1. A description of an area, building, or portion of a building and its intended use

Requisite Knowledge and Skills
1. Identify applicable codes and standards adopted by the jurisdiction
2. Discuss occupancy requirements for adjusting occupant loads
3. Describe impact of egress requirements on alternative methods to adjust occupant loads
4. Describe how to evaluate evacuation plan procedures related to adjusted occupant loads
5. Evaluate evacuation plan procedures
6. Read plans and reports, interpret codes and standards, and make decisions related to adjusting occupant loads
7. Analyze performance-based reports

Job Performance Requirements
Assess alternative methods to adjust occupant loads to keep the occupant load in accordance with applicable codes and standards.
3-14: Proposing Correction for Egress Deficiencies

Authority
   • Paragraph 6.3.2
2. Office of the State Fire Marshal

Given
1. A list of means of egress deficiencies in a building
2. The proposed correction

Requisite Knowledge and Skills
1. Identify applicable codes and standards adopted by the jurisdiction
2. Describe impact of occupancy requirements on egress deficiencies
3. Describe means of egress requirements for a building or portion of a building
4. Read and analyze plans and performance-based reports
5. Interpret codes and standards related to egress deficiencies and make decisions regarding correction

Job Performance Requirements
Evaluate each deficiency and its proposed correction for compliance with applicable codes and standards, and identify, document, and report egress deficiencies in accordance with jurisdictional policies.
3-15: Evaluating Construction Type of an Addition or Remodel

Authority
   • Paragraph 6.3.3
2. Office of the State Fire Marshal

Given
1. A description of a building and its use

Requisite Knowledge and Skills
1. Identify policies, procedures, and applicable codes and standards adopted by the jurisdiction
2. Describe the impact of occupancy requirements on construction type
3. Describe construction methods
4. Describe building construction features required in a wildland urban interface environment, including:
   • Ignition-resistant construction
   • Roofing
   • Vents
   • Exterior coverings
   • Exterior doors and windows
   • Decking
   • Ancillary structures
5. Recognize problems with the construction type of an addition or remodeling project
6. Read reports and plans as necessary to evaluate construction type

Job Performance Requirements
Evaluate the construction type required for an addition or remodeling project based on applicable codes and standards, and identify, document, and report deficiencies in accordance with jurisdictional policies.

Authority
- Paragraph 6.3.4

Given
1. Deficiencies noted during a field inspection of a facility
2. Proposed alternative methods

Requisite Knowledge and Skills
1. Identify applicable codes and standards adopted by the jurisdiction
2. Describe hazards of the process or operation
3. Discuss fire protection systems requirements
4. Identify inherent hazards associated with equipment, operations, and processes
5. Identify necessary safety precautions
6. Observe and recognize problems with alternative protection measures for equipment, operations, and processes
7. Verify compliance of alternative protection measures for equipment, operations, and processes in order to resolve deficiencies

Job Performance Requirements
Evaluate alternative protection measures of equipment, operations, and processes to verify that the level of protection they provide complies with the intent of applicable codes and standards.
3-17: Evaluating Fire Protection Plans and Practices

Authority
- Paragraph 6.3.5

Given
1. A field report describing a facility housing a complex process or operation

Requisite Knowledge and Skills
1. Identify the fire growth potential associated with complex processes or operations
2. Identify the fire protection levels for various complex processes or operations
3. Analyze various scenarios to determine appropriate fire protection level
4. Describe evacuation procedures
5. Observe and recognize problems with fire protection plans and practices
6. Evaluate hazards and verify appropriate protection level in accordance with applicable codes and standards and jurisdictional policies

Job Performance Requirements
Evaluate fire protection plans and practices to determine the fire growth potential for all areas and verify that the protection level is appropriate for the hazard in accordance with applicable codes and standards and jurisdictional policies.
3-18: Recommending Criteria for Developing Emergency Plans and Procedures

Authority
   - Paragraph 6.3.6
2. Office of the State Fire Marshal

Given
1. A description of a building and its use

Requisite Knowledge and Skills
1. Identify applicable codes and standards adopted by the jurisdiction
2. Discuss the purpose, use, and applicability of evacuation plans
3. Identify information sources and recommend criteria for emergency evacuation plans
4. Describe human behavior during fires and other emergencies
5. Read emergency plans and reports
6. Recognize problems with emergency plans and procedures

Job Performance Requirements
Recommend criteria for developing emergency planning and procedures in accordance with applicable codes and standards and jurisdictional policies.
3-19: Evaluating Compliance Alternatives for the Storage, Handling, and Use of Hazardous Materials

Authority
   • Paragraph 6.3.7
2. Office of the State Fire Marshal

Given
1. Field inspection reports
2. Proposed compliance alternatives

Requisite Knowledge and Skills
1. Identify other agencies that have requirements and jurisdiction related to hazardous materials
2. Observe and recognize problems with compliance alternatives for the storage, handling, and use of hazardous materials
3. Describe how to evaluate compliance alternatives for the storage, handling, and use of hazardous materials to ensure compliance with the intent of applicable codes and standards and jurisdictional policies
4. Read plans, reports and material safety data sheets as required to evaluate compliance alternatives for the storage, handling, and use of hazardous materials

Job Performance Requirements
Evaluate compliance alternatives for the storage, handling, and use of hazardous materials to verify that their level of safety complies with the intent of applicable codes and standards and jurisdictional policies.
3-20: Evaluating Compliance Alternatives for the Storage, Handling, and Use of Flammable or Combustible Liquids and Gases

**Authority**
- Paragraph 6.3.8

**Given**
1. Field inspection reports
2. Proposed compliance alternatives

**Requisite Knowledge and Skills**
1. Identify other agencies that have requirements and jurisdiction related to flammable and combustible liquids and gases
2. Read plans, reports and material safety data sheets as required to evaluate compliance alternatives for the storage, handling, and use of flammable or combustible liquids and gases

**Job Performance Requirements**
Evaluate compliance alternatives for the storage, handling, and use of flammable or combustible liquids and gases so that their storage, handling, and use comply with the intent of applicable codes and standards and jurisdictional policies.
3-21: Witnessing an Acceptance Test for an Integrated Fire Protection System

Authority
  • Paragraph 6.3.9

Given
1. Approved shop drawings
2. Test protocols
3. An installed system

Requisite Knowledge and Skills
1. Describe acceptance test procedures
2. Identify appropriate codes and standards
3. Supervise the performance of acceptance tests

Job Performance Requirements
Witness an acceptance test for an integrated fire protection system to evaluate for compliance, and identify, document, and report deficiencies in accordance with applicable codes and standards and jurisdictional policies.
3-22: Developing Emergency Access Criteria

Authority
  • Paragraph 6.3.10

Given
1. The jurisdiction’s emergency fire apparatus
2. The jurisdiction’s fire suppression practices

Requisite Knowledge and Skills
1. Discuss emergency access and accessibility requirements of the jurisdiction
2. Describe the performance specifications related to access of emergency vehicles of the jurisdiction
3. Identify emergency access requirements contained in the applicable codes and standards
4. Make decisions as required to develop emergency access criteria
5. Use measuring tools to evaluate emergency fire apparatus for use in planning emergency access criteria

Job Performance Requirements
Develop emergency access criteria to deliver fire suppression services in accordance with jurisdictional policies.
3-23: Evaluating Compliance of Life Safety Systems and Building Services Equipment with Construction Documents

Authority
  • Paragraph 6.3.11

Given
1. A performance-based design

Requisite Knowledge and Skills
1. Identify applicable codes and standards for installation and testing of fire protection systems, means of egress, and building services equipment
2. Witness and document tests of fire protection systems and building services equipment

Job Performance Requirements
Evaluate compliance with construction documents to ensure after installation, inspection, and testing, that life safety systems and building services equipment perform as described in the engineering documents and the operations and maintenance manual that accompanies the design; and to identify, document, and report deficiencies in accordance with the policies of the jurisdiction.
Section 4: Plan Review

4-1: Classifying the Occupancy of a Building

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

Given
1. A building’s plans and specifications
2. A building’s description

Requisite Knowledge and Skills
1. Describe types of plan views and system plans
2. Describe the systematic plan review process
3. Describe how to identify an occupancy classification from a set of plans
4. Identify applicable codes, standards, and regulations
5. Discuss how operational features may impact occupancy classification
6. Identify fire hazards presented by various occupancies
7. Read plans to determine occupancy classification

Job Performance Requirements
Classify the occupancy of a building in accordance with applicable codes and standards and jurisdictional policies.
4-2: Computing Maximum Allowable Occupancy Loads

Authority
• Paragraph 5.4.2

Given
1. A floor plan of a building or portion of a building

Requisite Knowledge and Skills
1. Describe how to calculate occupant loads for an occupancy and building use
2. Identify codes, requirements, and regulations
3. Discuss how operational features such as fixed seating impact occupant load
4. Identify fire hazards presented by various occupancies
5. Calculate accurate occupant loads
6. Identify occupancy factors related to various occupancy classifications
7. Use measuring tools, including a calculator, to compute maximum allowable occupancy loads
8. Read plans to compute maximum allowable occupancy loads

Job Performance Requirements
Compute the maximum allowable occupant load of a building or portion of the building in accordance with applicable codes and standards and jurisdictional policies.
4-3: Reviewing Proposed Installation of Fire Protection Systems

Authority
  • Paragraph 5.4.3

Given
1. Shop drawings and system specifications for a process or operation

Requisite Knowledge and Skills
1. *Describe* proper selection, distribution, location, and testing of portable fire extinguishers
2. *Discuss* methods used to evaluate the operational readiness of water supply systems used for fire protection
3. *Describe* the evaluation and testing of automatic sprinkler, water spray, and standpipe systems and fire pumps
4. *Describe* the evaluation and testing of fixed fire suppression systems
5. *Describe* the evaluation and testing of automatic fire detection and alarm systems and devices
6. Read basic floor plans or shop drawings
7. Identify symbols used by the jurisdiction

Job Performance Requirements
Review the proposed installation of fire protection systems for code compliance and installation in accordance with the approved drawings, and identify, document, and report deficiencies in accordance with applicable codes and standards and jurisdictional policies.
4-4: Reviewing Installed Fire Protection Systems

Authority
- Paragraph 5.4.4

Given
1. An installed system
2. Shop drawings
3. System specifications for a process or operation

Requisite Knowledge and Skills
1. Describe proper selection, distribution, location, and testing of portable fire extinguishers
2. Discuss methods used to evaluate the operational readiness of water supply systems used for fire protection
3. Describe the evaluation and testing of automatic sprinkler, water spray, and standpipe systems, and fire pumps
4. Describe the evaluation and testing of fixed fire suppression systems
5. Describe the evaluation and testing of automatic fire detection and alarm systems and devices
6. Read basic floor plans or shop drawings

Job Performance Requirements
Verify that the fire protection systems are installed in compliance with code and in accordance with the approved drawings, and identify, document, and report deficiencies in accordance with applicable codes, standards, and jurisdictional policies.
4-5: Verifying Means of Egress Elements

Authority
- Paragraph 5.4.5

Given
1. A floor plan of a building or portion of a building

Requisite Knowledge and Skills
1. Identify applicable codes and standards adopted by the jurisdiction
2. Describe the standard symbols used in plans to denote means of egress
3. Discuss field verification practices used to confirm appropriate egress elements
4. Read plans as required to verify means of egress elements
5. Research codes and standards to verify means of egress elements

Job Performance Requirements
Verify the provision of means of egress elements; identify and check elements against applicable codes and standards; and identify, document, and report deficiencies in accordance with applicable codes and standards and jurisdictional policies.
4-6: Verifying Construction Type

Authority
  • Paragraph 5.4.6

Given
1. A set of approved plans and specifications

Requisite Knowledge and Skills
1. Discuss building construction with an emphasis on fire-rated construction
2. Describe evaluation of methods of construction and assemblies for fire rating
3. Interpret analysis of test results
4. Discuss manufacturer’s specifications
5. Identify characteristics of each type of building construction

Job Performance Requirements
Verify that the construction type of a building or portion thereof complies with approved plans and applicable codes and standards.
State Fire Training Content

Code Key

Blocks
- **G** = Given
- **RKS** = Requisite Knowledge and Skills
- **JPR** = Job Performance Requirements
- **NCTS** = New certification training standard

Certification: Fire Inspector II

<table>
<thead>
<tr>
<th>CTS</th>
<th>Block</th>
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<th>Source/Reference</th>
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<td>2-3</td>
<td>RKS</td>
<td>Describe methods and procedures to record, validate, and resolve complex complaints</td>
<td>Added to clarify intent of JPR.</td>
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<td>RKS</td>
<td>Discuss how political pressures impact complaint investigation and resolution</td>
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<td>Added /and policies of the jurisdiction/.</td>
<td>Added to match language in JPR.</td>
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<td>2-10</td>
<td>RKS</td>
<td>Describe how to evaluate completed inspection reports, forms, and checklists</td>
<td>Added to match language in JPR.</td>
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<td>2-10</td>
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<td>Added /to subordinate's inspection reports/.</td>
<td>Added to clarify intent of JPR.</td>
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<td>3-3</td>
<td>RKS</td>
<td>Describe how to evaluate a building's area, height, and occupancy classification</td>
<td>Added to match JPR requirements.</td>
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<td>3-3</td>
<td>RKS</td>
<td>Added /analyze/.</td>
<td>Added to increase level of learning required by JPR.</td>
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<td>3-7</td>
<td>RKS</td>
<td>Describe how to evaluate emergency planning and preparedness procedures to determine applicability to the facility</td>
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<td>3-8</td>
<td>RKS</td>
<td>Added /and gases/.</td>
<td>Added to match JPR</td>
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<td>3-9</td>
<td>RKS</td>
<td>Added /use, and dispensing/</td>
<td>Added to match JPR requirements/clarify NFPA intent</td>
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<td>3-9</td>
<td>RKS</td>
<td>Describe how to determine maximum allowable quantities (MAQ)</td>
<td>This task is not included in NFPA 1031 but is required by California law</td>
<td>California Code of Regulations, Title 24, Division 9, Chapter 50 (2010)</td>
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<td>3-9</td>
<td>RKS</td>
<td>Describe control areas</td>
<td>This task is not included in NFPA 1031 but is required by California law</td>
<td>California Code of Regulations, Title 24, Division 9, Chapter 50 (2010)</td>
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<td>3-9</td>
<td>RKS</td>
<td>Describe how to evaluate control areas as they relate to hazardous materials storage</td>
<td>This task is not included in NFPA 1031 but is required by California law</td>
<td>California Code of Regulations, Title 24, Division 9, Chapter 50 (2010)</td>
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<td>3-9</td>
<td>RKS</td>
<td>Describe general requirements for quantities not exceeding maximum allowable quantities per control area</td>
<td>This task is not included in NFPA 1031 but is required by California law</td>
<td>California Health &amp; Safety Code, Division 20, Chapter 6.95</td>
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<td>3-9</td>
<td>RKS</td>
<td>Describe the requirements for, and contents of, a Hazardous Materials Management Plan</td>
<td>This task is not included in NFPA 1031 but is required by California law</td>
<td>California Health &amp; Safety Code, Division 20, Chapter 6.11</td>
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<tr>
<td>3-10</td>
<td>RKS</td>
<td>Describe how to determine compliance of contents, interior finish, and construction elements</td>
<td>Added to match JPR requirements</td>
<td>N/A</td>
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<tr>
<td>3-10</td>
<td>RKS</td>
<td>Describe how to identify, document, verify, and report or resolve deficiencies</td>
<td>Added to match JPR requirements</td>
<td>N/A</td>
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<tr>
<td>3-15</td>
<td>RKS</td>
<td>Describe building construction features required in a wildland urban interface environment, including: • Ignition-resistant construction • Roofing • Vents</td>
<td>This task is not included in NFPA 1031 but is required by California law</td>
<td>• California Code of Regulations, Title 24, Chapter 7A (2010) • Public Resources Code Section</td>
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<td>3-18</td>
<td>RKS</td>
<td>Identify information sources and recommend criteria for emergency evacuation plans</td>
<td>Added to clarify intent of JPR.</td>
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<td>3-19</td>
<td>RKS</td>
<td>Describe how to evaluate compliance alternatives for the storage, handling, and use of hazardous materials to ensure compliance with the intent of applicable codes and standards and jurisdictional policies</td>
<td>Added to match JPR requirements.</td>
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<td>Describe types of plan views and system plans</td>
<td>Added to clarify intent of JPR.</td>
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<td>4-1</td>
<td>RKS</td>
<td>Describe the systematic plan review process</td>
<td>Added to clarify intent of JPR.</td>
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### Errata

[Month Year]

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