Plan Examiner
(NFPA Plan Examiner I/II)

Certification Training Standards Guide
May 2015

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

Certification Training Standards Guide
May 2015

This CTS guide utilizes NFPA 1031 Standard for Professional Qualifications for Fire Inspector and Plan Examiner (2014) to provide the qualifications for State Fire Training’s Plan Examiner certification.

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

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2251 Harvard Street, Suite 400, Sacramento, CA  95815
(916) 568-2911

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

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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**CAL FIRE**

Ken Pimlott  
*Director, CAL FIRE*

Tonya Hoover  
*State Fire Marshal*

Mike Richwine  
*Assistant State Fire Marshal*

Vacant  
*Chief, State Fire Training*

Ron Coleman  
*Chair, STEAC*

**Cadre Leadership**

Mark Romer  
*Cadre Leader*  
*Fire Service Training Specialist III, Office of the State Fire Marshal*

Allison L. Shaw  
*Cadre Editor*  
*Sacramento State*
CADRE MEMBERS

Howard Cooke  
*Retired Senior Fire Inspector, Sacramento City Fire Department*

Robert Marshall  
*Fire Marshal, Contra Costa County Fire Protection District*

Rocque Yballa  
*Fire Marshal, Central County Fire Department*

PARTNERS

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The development and publication of this CTS guide was funded in part by the Assistance to Firefighters Grant Program from the U.S. Department of Homeland Security. State Fire Training is grateful to the U.S. Department of Homeland Security for its financial contribution toward the completion of this project.
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.
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.
Plan Examiner I

Section 1: Definition of Duties

1-1: Definition of Duties for Plan Examiner I

Authority
   - Paragraph 7.2
   - Paragraph 7.3

Given
1. There are no givens identified for this training standard

Requisite Knowledge and Skills
2. Identify the administrative duties of a Plan Examiner I
3. Identify the plan review duties of a Plan Examiner I

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

2-1: Preparing Reports

Authority
   • Paragraph 7.2.1

Given
1. Observations from a plan review

Requisite Knowledge and Skills
1. Describe legal requirements for plan review reports
2. Discuss accepted report preparation practices, policies, and procedures of the jurisdiction
3. Conduct code-related research
4. Write reports

Job Performance Requirements
Prepare clear and concise reports that reflect the findings of a plan review in accordance with applicable codes and standards and jurisdictional policies and procedures.
2-2: Resolving Deficiencies During a Plan Review

Authority
   - Paragraph 7.2.2

Given
1. A plan submittal
2. Established policies and procedures of the jurisdiction

Requisite Knowledge and Skills
1. Identify policies and procedures of the jurisdiction regarding the communication of discrepancies
2. Describe the appeals process
3. Identify codes and standards

Job Performance Requirements
Facilitate the resolution of deficiencies identified during a plan review by identifying, documenting with applicable references to codes and standards, and reporting to the plan submitter any deficiencies identified during a plan review.
2-3: Processing Plan Review Documents

Authority
   - Paragraph 7.2.3
2. Office of the State Fire Marshal

Given
1. A submittal package

Requisite Knowledge and Skills
1. Describe plan review policies and procedures of the jurisdiction
2. Identify conditions that require permits in accordance with the authority having jurisdiction
3. Review submittal package for completeness

Job Performance Requirements
Process plan review documents, resulting in the issuance of required permits in accordance with the policies of the jurisdiction.
2-4: Determining Applicable Codes and Standards

Authority
   - Paragraph 7.2.4

Given
1. A fire protection or life safety issue

Requisite Knowledge and Skills
1. Discuss applicable codes and standards adopted by the jurisdiction
2. Describe the format of codes and standards
3. Describe the interrelationship of codes and standards
4. Describe procedures adopted by the organizations responsible for promulgating state and local regulations
5. Conduct code-related research
6. Apply codes and standards

Job Performance Requirements
Determine the applicable code or standard, referencing the proper document, edition, and section.
Section 3: Plan Review

3-1: Identifying Requirements for Fire Protection or Life Safety Systems

Authority
   • Paragraph 7.3.1

Given
1. A set of plans

Requisite Knowledge and Skills
1. Identify applicable codes and standards for fire and life safety requirements
2. Read basic plans or shop drawings
3. Identify the symbols used on a set of plans
4. Apply codes and standards

Job Performance Requirements
Identify the requirements for fire protection or a life safety system by identifying, documenting, and reporting deficiencies in accordance with jurisdictional policies and procedures.
3-2: Verifying an Occupancy Classification and Maximum Allowable Occupant Loads

Authority
   • Paragraph 7.3.2
   • Paragraph 7.3.4
2. Office of the State Fire Marshal

Given
1. A set of plans
2. Specifications
3. A description of a building and its intended use
4. Measuring tools

Requisite Knowledge and Skills
1. Identify occupancy classifications and their intended uses
2. Describe how to calculate occupant loads for uses
3. Calculate occupant loads
4. Identify occupancy factors related to various occupancy types
5. Use measuring tools

Job Performance Requirements
1. Verify an occupancy classification in accordance with the applicable codes and standards and the policies of the jurisdiction.
2. Verify that a maximum allowable occupant load is in accordance with applicable codes and standards.
3-3: Verifying Construction Type

Authority
   • Paragraph 7.3.3

Given
1. A set of plans, including the occupancy classification area and height, number of stories, and location

Requisite Knowledge and Skills
1. Describe types of construction
2. Discuss fire-rated construction components
3. Describe typical building construction methods and materials
4. Discuss code requirements related to construction types
5. Determine construction types
6. Conduct code-related research

Job Performance Requirements
Verify that a building’s construction type is in accordance with applicable codes and standards by identifying, documenting, and reporting deficiencies.
3-4: Verifying Egress Provision

Authority
   - Paragraph 7.3.5
2. Office of the State Fire Marshal

Given
1. A set of plans
2. An area’s identified use
3. An occupant load

Requisite Knowledge and Skills
1. Describe applicable code requirements for means of egress elements
2. Discuss occupancy egress requirements
3. Discuss the relationship between fixed fire protection systems and egress requirements
4. Determine egress requirements based on occupant load
5. Research codes

Job Performance Requirements
Verify the provision of required egress, ensuring all egress elements have been provided, and identifying, documenting, and reporting deficiencies in accordance with jurisdictional policies.
3-5: Evaluating Fire Flow Compliance

Authority
   - Paragraph 7.3.6

Given
1. A plan
2. Codes and standards
3. Fire flow test results

Requisite Knowledge and Skills
1. *Identify* standard civil engineering symbols
2. *Describe* types of water supply and distribution systems
3. *Describe* water distribution system test methods
4. *Discuss* characteristics of public and private water supply systems, water meters, backflow prevention, and other devices that can impact fire flow
5. *Analyze* the effects of friction loss and elevation on water flow
6. *Discuss the* potential impact of state health regulations on fire flow
7. *Describe* applicable codes and standards related to fire flow in the jurisdiction
8. Interpret fire flow test results
9. Determine fire hydrant locations and spacing
10. Read fire flow graphs

Job Performance Requirements
Evaluate code compliance for required fire flow and hydrant location and spacing to *verify* correct hydrant location and determine required fire flow by identifying, documenting, and reporting deficiencies in accordance with jurisdictional policies and procedures.
3-6: Evaluating Emergency Vehicle Access

Authority
   • Paragraph 7.3.7

Given
1. A plan

Requisite Knowledge and Skills
1. Identify applicable codes and standards pertaining to emergency access and water supply
2. Discuss operating capabilities of fire department apparatus
3. Identify planning and zoning requirements
4. Interpret and use plan scale

Job Performance Requirements
Evaluate emergency vehicle access to ensure access is provided in accordance with applicable codes and standards, identifying, documenting, and reporting deficiencies in accordance with jurisdictional policies.
3-7: Recommending Plan Review Policies and Procedures

Authority
   • Paragraph 7.3.8

Given
1. Management objectives

Requisite Knowledge and Skills
1. Discuss plan review policies and procedures of the jurisdiction
2. Identify sources of detailed and technical information related to fire protection and life safety
3. Identify construction methods and materials related to fire safety
4. Read and interpret construction plans and specifications

Job Performance Requirements
Recommend policies and procedures for delivering plan review services conducted in accordance with jurisdictional policies and due process of the law.
3-8: Participating in Legal Proceedings

Authority
   • Paragraph 7.3.9

Given
1. The findings of a plan review
2. Consultation with legal counsel

Requisite Knowledge and Skills
1. Describe legal requirements pertaining to evidence rules in the legal system
2. Identify types of legal proceedings
3. Describe appropriate courtroom demeanor
4. Differentiate facts from opinions

Job Performance Requirements
Participate in legal proceedings, giving accurate testimony and with appropriate demeanor.
3-9: Reviewing Plans for Installing Fire Protection and Life Safety Systems

Authority
   • Paragraph 7.3.10
2. Office of the State Fire Marshal

Given
1. A plan submittal

Requisite Knowledge and Skills
1. Describe basic physical science as it relates to fire behavior and fire suppression
2. Discuss applicable codes and standards for fire protection and life safety systems
3. Identify basic system design criteria
4. Describe material listing requirements and specifications
5. Describe installation techniques
6. Describe acceptance inspection and testing of completed installations
7. Identify construction types and features
8. Identify hazards associated with occupancy classifications
9. Review specifications
10. Classify occupancies
11. Apply standards

Job Performance Requirements
Evaluate plans for the installation of fire protection and life safety systems, including pre-engineered systems and equipment, identifying, documenting, and reporting deficiencies in accordance with jurisdictional policies and procedures.
3-10: Evaluating Community or Wildland Urban Interface Plans

Authority
1. Office of the State Fire Marshal

Given
1. A set of landscape plans for a development or community in a fire hazard severity zone
2. A set of landscape plans for a wildland urban interface area

Requisite Knowledge and Skills
1. Describe basic wildland fire behavior
2. Describe wildland urban interface fire progression
3. Define wildland urban interface zones
4. Describe codes and standards related to public areas or a development or community landscape plan
5. Describe codes and standards related to a wildland urban interface landscape plan
6. Describe infrastructure considerations for grading and improvement plans
7. Identify and evaluate design and maintenance standards for open space areas adjacent to new development projects
8. Describe how to evaluate a vegetation management plan for buildings in a wildland urban interface
9. Coordinate with applicable building and planning departments

Job Performance Requirements
Evaluate landscape plans for a development, community, or a wildland urban interface, ensuring compliance with applicable codes and standards and identifying, documenting, and reporting deficiencies according to jurisdictional policies and procedures.
3-11: Evaluating Plans for Existing Occupancies

Authority
1. Office of the State Fire Marshal

Given
1. A set of plans for an existing building or portion of a building
2. Building records

Requisite Knowledge and Skills
1. Describe how to evaluate a proposed tenant improvement or change in occupancy classification
2. Describe the requirements for determining damage repair
3. Describe the application process to repair or restore a building to its permitted use
4. Describe the requirements for modifying the fire protection or life safety systems in an existing building
5. Describe the requirements, codes, and standards for historic buildings under repair or renovation
6. Describe the requirements for demolition and fire safety during construction
7. Coordinate with applicable building and planning departments

Job Performance Requirements
Evaluate a proposed modification or change in occupancy for a building or portion of a building, ensuring compliance with applicable codes and standards, and identifying, documenting, and reporting deficiencies in accordance with jurisdictional policies and procedures.
Plan Examiner II

Section 4: Definition of Duties

4-1: Definition of Duties of Plan Examiner II

Authority
   • Paragraph 8.2
   • Paragraph 8.3

Given
1. There are no givens identified for this training standard

Requisite Knowledge and Skills
1. Identify the administrative duties of a Plan Examiner II
2. Identify the plan review duties of a Plan Examiner II

Job Performance Requirements
There are no job performance requirements identified for this training standard.
Section 5: Administration

5-1: Creating Plan Review Checklists and Forms

Authority
   • Paragraph 8.2.1

Given
1. Applicable codes and standards
2. Departmental policies and procedures

Requisite Knowledge and Skills
1. Describe plan review elements required by codes, standards, policies, and procedures of the jurisdiction
2. Design checklists

Job Performance Requirements
Create plan review checklists and forms that address key issues and clearly express jurisdictional code requirements.
5-2: Developing Plan Review Policies and Procedures

Authority
   • Paragraph 8.2.2
2. Office of the State Fire Marshal

Given
1. Management objectives

Requisite Knowledge and Skills
1. *Describe* legal requirements that affect a plan examiner’s duties
2. *Describe* various government systems and processes that affect a plan examiner’s duties
3. *Identify* jurisdictional requirements and information sources *used to develop policies and procedures*
4. *Describe* technical assistance used in the development of policies and procedures

Job Performance Requirements
Develop and define policies and procedures for administering plan review functions in accordance with the jurisdiction’s legal obligations.
Section 6: Plan Review

6-1: Evaluating Design Concepts

Authority
   • Paragraph 8.3.1

Given
1. A preliminary design presentation

Requisite Knowledge and Skills
1. Describe fire protection and life safety construction features
2. Describe the jurisdiction’s preliminary plan review procedures
3. Discuss the approval process for alternative fire protection methodologies
4. Evaluate code compliance of conceptual designs

Job Performance Requirements
Evaluate a proposed design concept to verify that it meets the intent of applicable codes and standards and is in accordance with jurisdictional policies and procedures.
6-2: Evaluating Proposed Passive Fire Protection Elements

Authority
   • Paragraph 8.3.2

Given
1. A set of plans and specifications for a building or facility

Requisite Knowledge and Skills
1. *Describe* fire protection construction features, such as rated assemblies, fire stops, draft stopping, draft curtains, and other passive protection features
2. *Discuss* fire test methods
3. Verify the rating of an assembly using reference materials

Job Performance Requirements
Evaluate proposed passive fire protection elements of a building or portion of a building, verifying that the protection provided for the facility is in accordance with applicable codes and standards, and identifying, documenting, and reporting deficiencies in accordance with jurisdictional policies.
6-3: Evaluating Plans for a Process or Operation

Authority
   • Paragraph 8.3.3

Given
1. Plans and specifications

Requisite Knowledge and Skills
1. *Describe the* hazards of various *processes and operations* used in commercial and industrial occupancies
2. *Identify* applicable standards for arrangement and protection of various *processes and operations* used in commercial and industrial occupancies
3. *Describe* basic physical science as it relates to fire behavior and fire suppression, including mathematics, physics, and chemistry
4. *Identify* reference materials related to hazard properties of liquids, gases, and solids
5. Interpret codes and standards

Job Performance Requirements
Evaluate plans for a process or operation, reviewing the process or operation for compliance with applicable codes and standards, and identifying, documenting, and reporting deficiencies in accordance with applicable codes and standards and jurisdictional policies and procedures.
6-4: Evaluating Plans for Storage, Handling, and Use of Hazardous Materials

Authority
   - Paragraph 8.3.4
   - Paragraph 8.3.8
2. Office of the State Fire Marshal

Given
1. Plans and specifications

Requisite Knowledge and Skills
1. Describe properties of hazardous materials
2. Discuss applicable standards for the handling, storage, arrangement, and protection of hazardous materials
3. Identify reference materials related to hazardous materials
4. Verify the classification of hazardous materials using reference materials

Job Performance Requirements
Evaluate plans for storage, handling, and use of hazardous materials for compliance, by identifying, documenting, and reporting deficiencies in accordance with applicable codes and standards and jurisdictional policies and procedures.
6-5: Evaluating Plans for Installing Fire Protection and Life Safety Systems

Authority
   • Paragraph 8.3.5

Given
1. A plan submittal

Requisite Knowledge and Skills
1. Identify applicable codes and standards for fire protection and life safety systems
2. Describe engineering calculations for fire suppression and life safety systems
3. Identify construction types and features that impact system design
4. Identify building material listing requirements and specifications
5. Review specifications and read plans
6. Classify occupancies
7. Interpret codes and standards
8. Verify engineering calculations

Job Performance Requirements
Evaluate plans for the installation of fire protection and life safety systems, reviewing equipment, and identifying, documenting, and reporting deficiencies in accordance with applicable codes and standards and jurisdictional policies and procedures.
6-6: Evaluating a Proposed Alternative Method for Compliance

Authority
   - Paragraph 8.3.6
2. Office of the State Fire Marshal

Given
1. Supporting documentation for a proposed alternate method of compliance

Requisite Knowledge and Skills
1. *Describe* how a building should perform under adverse conditions, including the objectives and performance requirements reflecting the *equivalent* level of safety required by the jurisdiction or other performance-based regulation for a process or operation
2. Evaluate alternative proposals to prescriptive codes and standards

Job Performance Requirements
Evaluate a proposed alternative method for compliance with applicable codes and standards to ensure that the design meets the intent of applicable codes and standards.
6-7: Evaluating Systems Integration

Authority
   - Paragraph 8.3.7

Given
1. A plan submittal
2. A life safety report
3. A sequence of operations report
4. Testing criteria

Requisite Knowledge and Skills
1. Explain the fire and life safety objectives
2. Describe fire protection and life safety systems and their integration
3. Evaluate system integration

Job Performance Requirements
Evaluate the integration of life safety, fire protection, security, and building service systems by ensuring that the integration of proposed systems meets the requirements or intent of applicable codes and standards and the fire and life safety objectives of the jurisdiction, and identifying, documenting, and reporting deficiencies in accordance with jurisdictional policies.
6-8: Verifying Egress System and Elements

Authority
   • Paragraph 8.3.9
2. Office of the State Fire Marshal

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

Requisite Knowledge and Skills
1. Describe how to evaluate a means of egress system for compliance

Job Performance Requirements
Identify and verify the provision of all egress elements, identifying, documenting, and reporting deficiencies in accordance with applicable codes and standards and jurisdictional policies.
6-9: Evaluating a Plan with Special (High-piled Combustible) Storage Arrangements

Authority
   • Paragraph 8.3.10

Given
1. A plan with special (high-piled combustible) storage arrangements

Requisite Knowledge and Skills
2. Discuss application of codes and standards adopted by the jurisdiction for special (high-piled combustible) storage arrangements
3. Determine commodity types and storage arrangements

Job Performance Requirements
Evaluate a plan with special (high-piled combustible) storage arrangements, identifying, documenting, and reporting deficiencies in accordance with adopted codes and standards and jurisdictional policies.
6-10: Evaluating Building Service Equipment and Operations

Authority
   - Paragraph 8.3.11

Given
1. Plans and specifications

Requisite Knowledge and Skills
1. Describe types, installation, maintenance, and use of building service equipment
2. Describe installation, maintenance, and use of equipment for special processes and operations
3. Identify applicable codes and standards adopted by the jurisdiction
4. Apply, read, and interpret HVAC plans

Job Performance Requirements
Evaluate heating, ventilation, air conditioning, and other building service equipment and operations, verifying that the systems and other equipment are designed in accordance with applicable codes and standards, and identifying, documenting, and reporting deficiencies in accordance with jurisdictional policies.
6-11: Evaluating Performance-Based Design Concepts

Authority
   • Paragraph 8.3.12

Given
1. A preliminary design presentation

Requisite Knowledge and Skills
1. *Describe* the approval process for alternative performance-based fire protection methodologies
2. *Discuss* performance-based concepts
3. *Describe* development of appropriate input values based on building type and anticipated use
4. *Identify* jurisdictional and code requirements
5. Recognize deviations from the prescriptive code
6. Recognize and interpret performance-based proposals
7. Determine and present appropriate design input values and parameters based on building type and anticipated use

Job Performance Requirements
Evaluate a performance-based design concept to ensure that the proposed concept meets the intent of applicable codes and standards in accordance with jurisdictional policies and procedures.
# State Fire Training Content

## Code Key

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

## Certification: Plan Examiner

<table>
<thead>
<tr>
<th>CTS</th>
<th>Block</th>
<th>Addition</th>
<th>Justification</th>
<th>Source/Reference</th>
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<td>2-3</td>
<td>G</td>
<td>A submittal package</td>
<td>There are more components than just the plans and specifications needed to accomplish the JPR</td>
<td></td>
</tr>
<tr>
<td>2-3</td>
<td>RKS</td>
<td>Identify conditions that require permits in accordance with the authority having jurisdictions</td>
<td>Permits are pervasive enough that plan examiners need to know the conditions under which permits are required.</td>
<td></td>
</tr>
<tr>
<td>3-2</td>
<td>G</td>
<td>Measuring tools</td>
<td>The JPR can’t be accomplished without them.</td>
<td></td>
</tr>
<tr>
<td>3-2</td>
<td>RKS</td>
<td>Identify occupancy classifications and their intended uses</td>
<td>It’s required for the 7.3.2 JPR but wasn’t included in the NFPA Requisite Knowledge. You can’t verify occupancy classifications if you don’t know what they are.</td>
<td></td>
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<tr>
<td>3-4</td>
<td>G</td>
<td>An area’s identified use</td>
<td>Clarifies the application of occupant load specific to a use consistent with applicable codes and standards.</td>
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<td>3-10</td>
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<td>Evaluating Community or Wildland urban interface material added under state mandate.</td>
<td>Title 14, Division 1.5, Chapter 7,</td>
<td></td>
</tr>
<tr>
<td>CTS</td>
<td>Block</td>
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<tr>
<td>6-4</td>
<td>NCTS</td>
<td>Merged NFPA paragraphs 8.3.4 and 8.3.8.</td>
<td>They have identical JPR, G, and RKS content and 8.3.4 (flammable and combustible solids, liquids, and gases) are a subset of 8.3.8 (hazardous materials).</td>
<td></td>
</tr>
<tr>
<td>6-5</td>
<td>RKS</td>
<td>Describe engineering calculations for fire suppression and life safety systems</td>
<td>Replaced “hydraulic” calculations, which was too limiting. This is more encompassing of the range of calculations required of a plan examiner.</td>
<td></td>
</tr>
<tr>
<td>6-8</td>
<td>RKS</td>
<td>Describe how to evaluate a means of egress system for compliance</td>
<td>Required by state law, mandates compliance with state fire marshal regulations for exiting and egress.</td>
<td>Health and Safety Code 13145 and 13146 California Building and Fire Codes.</td>
</tr>
</tbody>
</table>
Errata

Code Key

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

Changes
- New text show in underline
- Deleted text shown in strikeout

May 2019
The May 2019 updated was a document formatting update for compliance with California Government Code (GC) Section 11546.7 (Assembly Bill 434). No content was changed.