Fire and Emergency Services Instructor 1

(NFPA: Fire and Emergency Services Instructor I)

Certification Training Standards Guide (2019)





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

Fire and Emergency Services Instructor 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 and Emergency Services Instructor 1 (2019) certification:

 NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)

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

Cover photo courtesy of Caryn Petty, Deputy State Fire Marshal III, CAL FIRE.

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Table of Contents

Acknowledgements	1
How to Read a CTS Guide	2
Fire and Emergency Services Instructor 1	4
Section 1: Definition of Duties	4
1-1: Definition of Duties	4
Section 2: Program Management	5
2-1: Assembling Course Materials	5
2-2: Preparing Resource Requests	
2-3: Scheduling Instructional Sessions	7
2-4: Completing Training Records and Reports	8
Section 3: Instructional Development	9
3-1: Identifying Adaptation Needs	
3-2: Adapting Lesson Plans	
Section 4: Instructional Delivery	
4-1: Organizing the Learning Environment	
4-2: Presenting Lessons	
4-3: Adjusting to Learner Characteristics	
4-4: Operating Instructional Technology Tools	
4-5: Delivering Instruction in a Distance or Hybrid Environment	
Section 5: Evaluation and Testing	18
5-1: Administering Tests	
5-2: Grading Tests	
5-3: Reporting Test Results	20
5-4: Providing Evaluation Feedback to Students	
5-5: Evaluating Student-Instructor Lesson Demonstrations	22

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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 and Emergency Services Instructor 1

Section 1: Definition of Duties

1-1: Definition of Duties

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.2.1
 - Paragraph 4.3.1
 - Paragraph 4.4.1
 - Paragraph 4.5.1

Job Performance Requirement

There is no Job Performance Requirement for this standard.

Requisite Knowledge

- 1. *Describe how to* manage basic resources, records, and reports essential to the instructional process
- 2. Describe how to review and adapt prepared instructional materials
- 3. Describe how to deliver instructional sessions utilizing prepared course materials
- 4. Describe how to administer and grade student evaluation instruments

Requisite Skills

1. None required

Content Modification

Block	Modification	Justification

Skill Sheets	Task Book
N/A	N/A

Section 2: Program Management

2-1: Assembling Course Materials

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.2.2

Job Performance Requirement

Assemble course materials, given a specific topic, so that the lesson plan and all materials, resources, and equipment needed to deliver the lesson are obtained.

Requisite Knowledge

- 1. Describe the components of a lesson plan
- 2. Describe AHJ policies and procedures for the procurement of materials and equipment
- 3. Describe resource availability

Requisite Skills

1. None required

Content Modification

Block	Modification	Justification

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology		
• Topic 2-1 (RK 1)	N/A	JPR 1
 Topic 5-1 (all others) 		

2-2: Preparing Resource Requests

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.2.3

Job Performance Requirement

Prepare requests for resources, given training goals and current resources, so that resources required to meet training goals are identified and documented.

Requisite Knowledge

- 1. Describe resource management for instructional materials
- 2. Identify sources of instructional resources and equipment

Requisite Skills

- 1. Demonstrate effective oral and written communication
- 2. Complete forms

Content Modification

Block	Modification	Justification
RK 1	Added "for instructional materials".	None given. (2012)
RS 1	Added "demonstrate effective".	No verb provided by NFPA. (2019)
RS 2	Changed word order.	Changed to put verb first. (2012)

Skill Sheets	Task Book
N/A	JPR 2

2-3: Scheduling Instructional Sessions

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.2.4

Job Performance Requirement

Schedule single instructional sessions, given a training assignment, AHJ scheduling procedures, instructional resources, facilities, and timeline for delivery, so that specified sessions are delivered according to AHJ procedure.

Requisite Knowledge

- 1. Describe AHJ scheduling procedures
- 2. Describe resource management for scheduling instruction

Requisite Skills

1. Complete a training schedule

Content Modification

Block	Modification	Justification
RK 2	Added "for scheduling instruction".	None provided. (2012)
RS 1	Changed word order and added "a".	Changed to put verb first. (2019)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology	N/A	JPR 3
• Topic 5-3	IN/A	JPK 5

2-4: Completing Training Records and Reports

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.2.5

Job Performance Requirement

Complete training records and reports, given policies and procedures, so that required reports are accurate and submitted in accordance with the procedures.

Requisite Knowledge

- 1. Identify types of records and reports required
- 2. Describe policies and procedures for processing records and reports

Requisite Skills

- 1. Write reports
- 2. Complete records

Content Modification

Block	Modification	Justification
RK 1	Changed word order.	Changed to put verb first. (2019)
RK 2	Changed word order.	Changed to put verb first. (2019)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology	N/A	JPR 4
Topic 5-4	IV/A	JPK 4

Section 3: Instructional Development

3-1: Identifying Adaptation Needs

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.3.2

Job Performance Requirement

Review instructional materials, given the materials for a specific topic, target audience, learner characteristics, and learning environment, so that elements of the lesson plan, learning environment, and resources that need adaption are identified.

Requisite Knowledge

- 1. Recognize student learner characteristics, needs, and diversity
- 2. Describe methods of instruction
- 3. Identify types of resource materials
- 4. Describe how to organize the learning environment
- 5. Identify policies and procedures for adapting instruction or the learning environment

Requisite Skills

1. Analyze resources, facilities, and materials

Content Modification

Block	Modification	Justification
RK 1	Added "need".	None given. (2012)
RK 4	Added "how to".	Creates parallel sentence structure with other RK items. (2019)
RK 5	Added "for adapting instruction or the learning environment".	Provides clarification on which policies and procedures. (2012)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology	N/A	JPR 5
Topic 2-1	N/A	JEK 2

3-2: Adapting Lesson Plans

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.3.3

Job Performance Requirement

Adapt a prepared lesson plan, given course materials and an assignment, so that the needs of the student and the objectives of the lesson plan are achieved.

Requisite Knowledge

- 1. Describe how to analyze the components of a lesson plan
- 2. Describe how to select instructional aids and methods to support the lesson plan
- 3. Describe how to organize the learning environment

Requisite Skills

1. Demonstrate instructor preparation and organization techniques

Content Modification

Block	Modification	Justification
RK 1	Added "how to analyze" and	Creates parallel sentence structure with
	"component".	other RK items. (2019)
RK 2	Added "how to select" and "to support	Creates parallel sentence structure with
	the lesson plan".	other RK items. (2019)
RK 3	Added "how to".	Creates parallel sentence structure with
		other RK items. (2019)
RS 1	Added "Demonstrate".	NFPA did not provide a verb. (2019)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology		
• Topic 2-1 (RK 1, RK 3)	NI/A	IDD 6
• Topic 2-2 (RK 2, RS 1)	N/A	JPR 6
• Topic 3-1 (RK 3)		

Section 4: Instructional Delivery

4-1: Organizing the Learning Environment

Authority

- 1. NFPA 1401: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.4.2

Job Performance Requirement

Organize the learning environment, given a facility and an assignment, so that lighting, distractions, climate control or weather, noise control, seating, audiovisual equipment, teaching aids, and safety are addressed.

Requisite Knowledge

- 1. Describe learning environment management and safety
- 2. Identify advantages and limitations of audiovisual equipment and teaching aids
- 3. Describe classroom arrangements that best fit the content, learning environment, and student needs
- 4. Describe methods and techniques of instruction that best fit the content, learning environment, and student needs

Requisite Skills

1. Use instructional media and teaching aids that best fit the content, learning environment, and student needs

Content Modification

Block	Modification	Justification
RK 3	Added "that best fit the content, learning environment, and	None given.
	student needs".	(2012)
RK 4	Added "that best fit the content, learning environment, and	None given.
	student needs".	(2012)
RS 1	Added "that best fit the content, learning environment, and	None given.
	student needs".	(2012)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology	N/A	JPR 7
Topic 3-1	IV/A	JFN /

4-2: Presenting Lessons

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.4.3

Job Performance Requirement

Present and adjust prepared lessons, given a prepared lesson plan that specifies the presentation method(s), so that the *cognitive* and *psychomotor* methods indicated in the plan are used and the stated objectives or learning outcomes are achieved, applicable safety standards and practices are followed, and risks are addressed.

Requisite Knowledge

- 1. Describe laws and principles of learning
- 2. Describe methods and techniques of instruction
- 3. Describe lesson plan components
- 4. Describe elements of the communication process
- 5. Define lesson plan terminology and definitions
- 6. Identify learner characteristics
- 7. *Describe* student-centered learning principles
- 8. *Identify* instructional technology tools
- 9. Identify impact of cultural differences on instructional delivery
- 10. Describe safety rules, regulations, and practices
- 11. Identify training hazards
- 12. Identify elements, benefits, and limitations of distance learning
- 13. Identify distance learning delivery methods
- 14. Describe the instructor's role in distance learning

Requisite Skills

- 1. Use oral and nonverbal communication techniques for classroom or distance learning presentation
- 2. Use methods and techniques of instruction
- 3. Demonstrate the ability to adapt to changing circumstance
- 4. Use lesson plans in an instructional setting

Content Modification

Block	Modification	Justification
JPR	Added "cognitive and psychomotor".	None given. (2012)
RK 12	Added "benefits".	None given. (2012)
RK 1	Added "and nonverbal" and "for classroom or distance None given. (2012)	
	learning presentation".	

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology		
• Topic 2-1 (RK 3, RK 5)	N/A	JPR 8
Topic 3-2 (all others)		

4-3: Adjusting to Learner Characteristics

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.4.4

Job Performance Requirement

Adjust to differences in learner characteristics, abilities, cultures, and behaviors, given the instructional environment, so that lesson objectives are accomplished, disruptive behavior is addressed, and a safe and positive learning environment is maintained.

Requisite Knowledge

- 1. Describe motivation and coaching techniques
- 2. Describe learner characteristics
- 3. Describe types of learning disabilities and methods for dealing with them
- 4. Describe methods of dealing with disruptive and unsafe behavior

Requisite Skills

- 1. Use basic coaching and motivational techniques
- 2. Correct disruptive behaviors
- 3. Adapt lesson plans or materials to specific instructional situations

Content Modification

Block	Modification	Justification
RK 1	Added "and coaching".	Added to be consistent with RS usage. (2012)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology	N/A	JPR 9
• Topic 3-3	IV/A	JFN 9

4-4: Operating Instructional Technology Tools

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.4.5

Job Performance Requirement

Operate instructional technology tools and demonstration devices, given a learning environment and equipment, so that the equipment functions properly, the intended objectives are presented, and transitions between media and other parts of the presentation are accomplished.

Requisite Knowledge

- 1. Describe instructional technology tools
- 2. Describe demonstration devices
- 3. Identify selection criteria

Requisite Skills

- 1. Use instructional technology tools
- 2. Use demonstration devices
- 3. Use transition techniques
- 4. Clean and maintain audiovisual equipment at the field level *following manufacturer instructions*

Content Modification

Block	Modification	Justification
RS 4	Added "following manufacturer instructions".	None given. (2012)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology	N/A	IDD 10
• Topic 3-4	IN/A	JPR 10

4-5: Delivering Instruction in a Distance or Hybrid Environment

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Deliver instruction in a distance or hybrid environment, given a lesson plan, instructional tools and technology, and resources, so that lesson plans, the learning environment, and resources are adapted; stated objectives or learning outcomes are achieved; instructional technology tools are used effectively and properly; testing is bias free and secure; and feedback is delivered in a manner that meets learner needs and in accordance with AHJ policies and procedures and distance or hybrid learning best practices.

Requisite Knowledge

- 1. Identify the benefits and limitations of a distance or hybrid learning environment
- 2. Identify distance or hybrid learning delivery methods
 - Methods
 - o Synchronous
 - o Asynchronous
 - Modalities
 - o Online learning
 - o Blended (hybrid) e-learning
 - o Web-based instruction
 - Computer-based training
 - Interactive/smart screen
 - o Podcasts
- 3. Identify applicable laws, rules, and regulations
 - Americans with Disabilities Act
 - Copyright and fair use laws
 - Privacy
- 4. Identify AHJ policies for delivering distance or hybrid instruction
- 5. Identify instructional technology tools and resources
- 6. Describe the instructor's role in distance or hybrid instruction
- 7. Describe effective methods of instruction that best fit
 - Learning objectives
 - Learning environment
 - Student needs
- 8. Identify components of a lesson plan requiring adaption
- 9. Describe how to engage students with different learning characteristic, backgrounds, and needs
- 10. Describe effective classroom management practices
- 11. Describe how to conduct testing
 - AHJ policies and procedures

- Test security
- Student confidentiality
- Ensuring ethical behavior
- Ensuring equal access and accommodation
- Eliminating testing bias
- 12. Describe how to provide effective student feedback
- 13. Describe how to facilitate a teaching demonstration review and discussion

Requisite Skills

- 1. Adapt lesson plans for a distance or hybrid learning environment
- 2. Communicate orally and in writing in a digital platform

Content Modification

Block	Modification	Justification
CTS	Added a new	Changes to teaching environments and modalities during the
	training standard.	COVID-19 pandemic necessitate that all instructors be familiar
		with delivering distance or hybrid instruction. (2019)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology	N/A	JPR 11
Topic 6-1	14,71	31 11 11

Section 5: Evaluation and Testing

5-1: Administering Tests

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.5.2
- 2. Office of the State Fire Marshal

Job Performance Requirement

Administer oral, written, and performance tests, given the lesson plan, evaluation instruments, and evaluation procedures of the AHJ, so that bias or discrimination is eliminated; the testing is conducted according to procedures, and the security of the materials is maintained.

Requisite Knowledge

- 1. *Describe* test administration laws and policies pertaining to discrimination during training and testing
- 2. Describe testing bias and methods for eliminating it
- 3. Identify laws affecting records and disclosure of training and testing information
- 4. Describe purposes of evaluation and testing
- 5. Describe how to evaluate performance skills

Requisite Skills

- 1. Use skills checklists
- 2. Use assessment techniques

Content Modification

Block	Modification	Justification
RK 2	Added RK item.	This is a different aspect then what is covered in standard 5-2 (4.5.3). Discussion here focused on avoiding bias within the
		federal (https://www.dfeh.ca.gov/employment/) laws. (2019)
RK 5	Added "how to".	Added to create consistency with other RK items. (2019)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology	N/A	JPR 12
Topic 4-1	IN/A	JPN 12

5-2: Grading Tests

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.5.3

Job Performance Requirement

Grade student oral, written, or performance tests, given class answer sheets or skills checklists and appropriate answer keys, so the examinations are accurately graded and properly secured.

Requisite Knowledge

- 1. Describe grading methods
- 2. Describe methods for eliminating bias during grading
- 3. Describe methods for maintaining exam security and confidentiality of scores

Requisite Skills

1. None required

Content Modification

Block Modification		Justification
RK 3	Added "exam security and".	None given. (2012)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology • Topic 4-2	N/A	JPR 13

5-3: Reporting Test Results

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.5.4

Job Performance Requirement

Report test results, given a set of test answer sheets or skills checklists, a report form, and policies and procedures for reporting, so that the results are accurately recorded, the forms are forwarded according to procedure, and unusual circumstances are reported.

Requisite Knowledge

- 1. Describe reporting procedures
- 2. Describe how to interpret test results

Requisite Skills

- 1. Demonstrate communication skills for submitting test results
- 2. Provide basic coaching

Content Modification

Block	Modification	Justification	
RK 2	Added "how to".	Added for consistency with other RK items. (2019)	
RS 1	Added "for submitting test	Added for context to narrow scope of	
	results".	"communication skills". (2019)	

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology	NI/A	JPR 14
• Topic 4-3	N/A	JPK 14

5-4: Providing Evaluation Feedback to Students

Authority

- 1. NFPA 1041: Standard for Fire and Emergency Services Instructor Professional Qualifications (2019)
 - Paragraph 4.5.5

Job Performance Requirement

Provide evaluation feedback to students, given evaluation data, so that the feedback is timely; specific enough for the student to make efforts to modify behavior; objective, clear, and relevant; *and* includes suggestions *for additional study or behavior modification* based on the data.

Requisite Knowledge

- 1. *Describe* reporting procedures
- 2. Describe how to interpret test results

Requisite Skills

1. Use communication skills and basic coaching techniques

Content Modification

Block	Modification	Justification
JPR	Added "and"	Added to correct NFPA grammar. (2019)
JPR	Added "for additional study or	None given. (2012)
	behavior modification".	
RK 2	Added "how to".	Added for consistency with other RK items. (2019)
RS 1	Added "Use" and "techniques".	Added "use" because NFPA did not provide a verb.
		Added "techniques" to complete concept. (2019)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology	N/A	JPR 15
• Topic 4-4	IV/A	JEK 13

5-5: Evaluating Student-Instructor Lesson Demonstrations

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Evaluate student-instructor presentations, given a student-instructor demonstration and an evaluation form, so that constructive feedback that identifies strengths and weaknesses of the teaching demonstration is provided.

Requisite Knowledge

- 1. Describe how to observe a teaching demonstration
- 2. Describe how to evaluate and document strengths and weaknesses of student-instructor performance according to established criteria
- 3. Describe how to facilitate a teaching demonstration review and discussion

Requisite Skills

- 1. Observe a teaching demonstration
- 2. Complete an evaluation form
- 3. Conduct a teaching demonstration review and discussion with a student-instructor

Content Modification

Block Modification		Justification
CTS	Added a new training standard.	None given. (2012)

Course Plan	Skill Sheets	Task Book
Instructor 1: Instructional Methodology	NI/A	JPR 16
• Topic 4-5	N/A	JPK 10