To: Ronny J. Coleman, Chairman  
Statewide Training and Education Advisory Committee  
c/o State Fire Training  

From: Mark Romer, Fire Service Training Specialist, State Fire Training  

Subject/Agenda Action Item: Wildland Fire Fighter II Curriculum  

Recommended Actions: Information/Discussion  

Background Information:  
Wildland Fire Fighter II will be a new level of certification within the California Fire Service Training and Education System. The program is based off 2012 NFPA standard 1051 chapter 6, Standards for Wildland Fire Fighter Professional Qualifications.  

This curriculum and certification level was developed during the Firefighter I and II rewrite in 2013 but held until there was a need to bring it forward. CalFire has requested that this new level of certification be established to meet the needs of their JAC program. This will also assist other agencies within the state that use senior firefighter as squad bosses within their organizational structure.  

Cadre Leadership  
Mark Romer, Cadre Leader and Mallory Leone, Cadre Editor, Sacramento State  

Development Cadre Members  
Jonathan Black, Fire Captain, Santa Clara County Fire Department, Darin Hebert, Fire Fighter/Paramedic, Los Angeles Fire Department, Tony Mecham, Division Chief, CalFire, Demond Simmons, Captain of Fire, Oakland Fire Department, Michael Stahl, Engineer/Paramedic, Menlo Park Fire Protection District  

Analysis/Summary of Issue:  
The following is an analysis of the Wildland Fire Fighter II  

This course meets the requirements of S-131, S-211 and S-212, this meets NWCG/CICCS Type 1 FF. The course covers human resources management, preparedness – maintenance of power tools and portable pumps, Fireline construction methods, Wildland Urban Interface operations,
Chainsaw and portable pump operations, Fire origin evidence preservations and serving as a lookout.

Hours break down for the program are as follows:

a. Lecture hours  64hrs
b. Skills/Activities  21 hrs
c. Testing  8:00 hrs this includes formative, summative and skills
d. Total Hours  93 hrs
This CTS guide utilizes NFPA 1001 Standard for Fire Fighter Professional Qualifications 2013 and NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012 to provide the qualifications for State Fire Training’s Fire Fighter II 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).
# Table of Contents

State Fire Training .................................................................................................................. 1
Acknowledgments .................................................................................................................... 2
How to Read a CTS Guide ....................................................................................................... 5
Wildland Fire Fighter II .......................................................................................................... 7
  Section 1: General Knowledge ............................................................................................. 7
    1-1: General Knowledge Requirements ............................................................................... 7
  Section 2: Human Resource Management ......................................................................... 8
    2-1: Evaluating Crew Members for Suppression Duties .................................................. 8
    2-2: Briefing Assigned Personnel ...................................................................................... 9
    2-3: Leading Wildland Fire Fighters ................................................................................ 10
  Section 3: Preparedness ...................................................................................................... 11
    3-1: Maintaining Power Tools and Portable Pumps ......................................................... 11
    3-2: Inspecting Tools and Equipment .............................................................................. 12
  Section 4: Suppression ....................................................................................................... 13
    4-1: Selecting Fireline Construction Methods .................................................................. 13
    4-2: Reducing Fire Exposure to Improved Properties .................................................... 14
    4-3: Operating a Chain Saw ............................................................................................. 15
    4-4: Operating Water Delivery Equipment ....................................................................... 16
    4-5: Securing Fire Origin and Evidence Preservation ..................................................... 17
    4-6: Serving as a Lookout ................................................................................................ 18
State Fire Training Content ..................................................................................................... 19
Errata ...................................................................................................................................... 20
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.

State Fire Training gratefully acknowledges the following individuals and organizations for their diligent efforts and contributions that made the development and publication of this document possible.

**CAL FIRE**

Ken Pimlott  
*Director, CAL FIRE*

Tonya Hoover  
*State Fire Marshal*

Mike Richwine  
*Assistant State Fire Marshal*

Name  
*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*

Mallory Leone  
*Cadre Editor*  
*Sacramento State*

**Cadre Members**

Development
Acknowledgments

Jonathan Black
Fire Captain, Santa Clara County Fire Department

Darin Hebert
Fire Fighter/Paramedic, Los Angeles Fire Department

Tony Mecham
Division Chief, CalFire

Demond Simmons
Captain of Fire, Oakland Fire Department

Michael Stahl
Engineer/Paramedic, Menlo Park Fire Protection District

Validation

Jonathan Black
Fire Captain, Santa Clara County Fire Department

Taral Brideau
Education Training Director, CalJAC

Clinton Carson
Battalion Chief, Ophir Hill Fire Protection District

Heath Cohen
Captain Heath Cohen, Apple Valley Fire Protection District

Randy Collins
Fire Tech Director, Santa Rosa Junior College

Zachary De John
Fire Fighter, Laguna Beach Fire Department

Piper Denlinger
Captain, San Diego Fire-Rescue

Brad L. Lopez
Captain, Winters Fire Department
Orby Odil  
*Captain, City of Riverside Fire Department*

Stephen Shull  
*Division Chief (Retired), Mt. San Antonio College*

Grant Smith  
*Fire Fighter/Paramedic and Fire Technology Director, Rancho Santa Fe Fire Protection District*

Michael Stahl  
*Engineer/Paramedic, Menlo Park Fire Protection District*

**Partners**  
State Fire Training also extends special acknowledgement and appreciation to the Conference and Training Services Unit with the College of Continuing Education at California State University, Sacramento, for its ongoing meeting logistics and curriculum development support, innovative ideas, and forward-thinking services. This collaboration is made possible through an interagency agreement between CAL FIRE and Sacramento State.
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.
Wildland Fire Fighter II

Section 1: General Knowledge

1-1: General Knowledge Requirements

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
- Section 6.1.1

Given
1. None identified

Requisite Knowledge and Skills
1. Describe the Wildland Fire Fighter II role within the incident management system
2. Describe basic map reading and compass use or other locating device
3. Discuss radio procedures
4. Discuss record keeping
5. Perform orienteering
6. Use radios

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

2-1: Evaluating Crew Members for Suppression Duties

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
• Section 6.2.1

Given
1. A wildland fire
2. An assigned task
3. Agency equipment standards
4. Crew members

Requisite Knowledge and Skills
1. Describe agency standards for crew readiness
2. Discuss personnel inspections procedures
3. Inspect members’ personal protective equipment, tools, supplies, qualifications, and physical fitness level

Job Performance Requirements
1. Evaluate the readiness of assigned crew members so that crew members are equipped and supplied for suppression duties.
2-2: Briefing Assigned Personnel

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
  • Section 6.2.2

Given
1. An assignment
2. Supporting information
3. Equipment requirements
4. Assigned personnel

Requisite Knowledge and Skills
1. *Discuss* incident and task information necessary to carry out assignments
2. *Describe* briefing skills

Job Performance Requirements
1. Brief assigned personnel on specific tasks, standards, safety, operations, and special interest area considerations.
2-3: Leading Wildland Fire Fighters

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
- Section 6.2.3

Given
1. An assignment
2. Performance standards

Requisite Knowledge and Skills
1. Describe leadership techniques for small groups

Job Performance Requirements
1. Lead wildland fire fighters in the safe completion of a task within the standards set by agency guidelines.
Section 3: Preparedness

3-1: Maintaining Power Tools and Portable Pumps

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
  • Section 6.3.2

Given
1. Agency maintenance specifications
2. Supplies
3. Small tools
4. Power tools
5. Portable pumps

Requisite Knowledge and Skills
1. Describe maintenance procedures for power tools and portable pumps
2. Perform power tool and portable pump preventative maintenance and repair

Job Performance Requirements
1. Maintain power tools and portable pumps, keep equipment maintained and serviceable, and recognize and ensure repair of defects.
3-2: Inspecting Tools and Equipment

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
- Section 6.3.3

Given
1. Agency specifications
2. Wildland hand tools and equipment

Requisite Knowledge and Skills
1. Describe tools and equipment inspection guidelines
2. Inspect the tools and equipment according to guidelines

Job Performance Requirements
1. Inspect tools and equipment and ensure the availability of the tools and equipment for fire use.
Section 4: Suppression

4-1: Selecting Fireline Construction Methods

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
- Section 6.5.2

Given
1. A wildland fire
2. Line construction standards

Requisite Knowledge and Skills
1. Discuss resource capabilities and limitations
2. Describe fireline construction methods
3. Identify agency standards

Job Performance Requirements
1. Select fireline construction methods using techniques that are compatible with the conditions and meet agency standards.
4-2: Reducing Fire Exposure to Improved Properties

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
  • Section 6.5.3

Given
1. A wildland or wildland/urban interface fire
2. Available tools and equipment

Requisite Knowledge and Skills
1. Discuss fire behavior in both wildland and improved properties
2. Describe the effects of fuel modification to reduce the hazard
3. Use tools and equipment to protect the improved property

Job Performance Requirements
1. Reduce fire exposure to improved properties in order to protect improvements and reduce the risk from fire.
4-3: Operating a Chain Saw

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
- Section 6.5.4

Given
1. An assignment at a wildland fire
2. Operational standards
3. Chain saw
4. Safety equipment
5. Personal protective equipment

Requisite Knowledge and Skills
1. Describe agency operational standards for chain saw operation and safety
2. Describe agency operational standards for tool selection
3. Describe agency operational standards for personal protective equipment used during saw use
4. Describe agency operational standards for site preparation
5. Describe agency operational standards for handling and cutting techniques
6. Describe agency operational standards for use of wedges
7. Describe agency operational standards for saw and equipment transportation

Job Performance Requirements
1. Operate a chain saw until the assignment is safely completed.
4-4: Operating Water Delivery Equipment

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
• Section 6.5.5

Given
1. An assignment at a wildland fire
2. Operational standards
3. Water delivery equipment

Requisite Knowledge and Skills
1. Describe basic hydraulic theories
2. Discuss pump and water delivery system capabilities
3. Describe operation of pumps
4. Describe basic drafting
5. Identify associated equipment
6. Describe placement, operation, and system setup

Job Performance Requirements
1. Operate water delivery equipment, select the proper equipment, attain desired nozzle pressure, and maintain flow.
4-5: Securing Fire Origin and Evidence Preservation

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
  • Section 6.5.6

Given
1. A wildland fire
2. Agency procedures

Requisite Knowledge and Skills
1. Discuss types of evidence
3. Discuss the importance of site security and evidence preservation
4. Describe evidence preservation techniques
5. Discuss use of marking devices for site security

Job Performance Requirements
1. Secure the area of suspected fire origin and associated evidence, protect all evidence or potential evidence from damage or destruction, and report all evidence to a supervisor.
4-6: Serving as a Lookout

Authority
NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012
- Section 6.5.7

Given
1. An assignment at a wildland fire as per agency procedures

Requisite Knowledge and Skills
1. Describe basic fire behavior
2. Describe how to recognize hazardous situations
3. Discuss communication methods
4. Discuss equipment and procedures
5. Accurately describe fire behavior and change in fire behavior through verbal communication, hand signals, or use of communication equipment

Job Performance Requirements
1. Serve as a lookout and update or warn fire fighters when conditions change.
State Fire Training Content

Code Key

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

Sources
- [ACRONYM = Title]
- [ACRONYM = Title]
- [ACRONYM = Title]

Certification: Wildland Fire Fighter II

<table>
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<th>Justification</th>
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## Errata

[Month Year]

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Wildland Fire Fighter II

Course Plan

Course Details

Certification: Fire Fighter

CTS Guide: Wildland Fire Fighter II Certification Training Standards Guide

Description: This course provides the skills and knowledge needed for the entry level professional fire fighter to perform his/her duties safely, effectively, and competently. The curriculum is based on the 2012 edition of NFPA 1051 Standard For Wildland Fire Fighter Professional Qualifications. The five overarching themes of the California State Fire Fighter I curriculum are: general knowledge germane to the profession, human resource management, preparedness, and suppression.

Designed For: Experienced Wildland Fire Fighter (Squad Boss)

Prerequisites: Wildland Fire Fighter I Certification

Standard: Complete all activities and formative tests.

Complete all summative tests with a minimum score of 80%.

Hours: Lecture: 64:00

Activities/Skills: 21:00

Testing: 8:00

Hours (Total): 93:00

Maximum Class Size: 50

Instructor Level: Training Instructor 1A and 1B

Instructor/Student Ratio: 1:50 (Lecture); 1:10 (Skills)

Restrictions: None

SFT Designation: CFSTES
Required Resources

Instructor Resources

To teach this course, instructors need:

- National Wildfire Coordinating Group S-211, NFES 003026, 003027 Portable Pumps and Water Use
- National Wildfire Coordinating Group S-212, NFES 002660, 002661 Wildland Chainsaws
- National Wildfire Coordinating Group S-131, NFES 002790, 002792, 002793 Fire Fighter Type I
- National Wildfire Coordinating Group NFES 2865, PMS 475 Basic Land Navigation

Online Instructor Resources

The following instructor resources are available online at [http://osfm.fire.ca.gov/training/instructorscorner.php](http://osfm.fire.ca.gov/training/instructorscorner.php):

- Skill sheets

Student Resources

To participate in this course, students need:

- National Wildfire Coordinating Group NFES 2865, PMS 475 Basic Land Navigation
- National Wildfire Coordinating Group S-211, NFES 003028 Portable Pumps and Water Use
- National Wildfire Coordinating Group S-212, NFES 002662 Wildland Chainsaws
- National Wildfire Coordinating Group S-131, NFES 002791 Fire Fighter Type I
- National Wildfire Coordinating Group NFES 0065 Fireline Handbook
- Wildland personal protective equipment

Facilities, Equipment, and Personnel

The following facilities, equipment, or personnel are required to deliver this course:

- **Appliances and tools**: 1 ½-inch fog nozzle, 3/8 – 5/8-inch straight tip nozzle, wildland nozzles and appliances, cap, double female fittings, double male fittings, hose clamps, hose roller, reducer or increaser (fittings), Siamese, spanner wrenches, and gated wye
- **Hose**: 1-, 1 ½-forestry hose (1,200-foot minimum)
- **Hand tools**: Wildland hand tools and equipment
- **Power tools**: Chain saw and portable pumps
• **Facilities:** Outdoor area suitable for basic chainsaw and portable pump operations
Unit 1: Introduction

Topic 1-1: Orientation and Administration

Terminal Learning Objective
At the end of this topic, a student will be able to identify facility and classroom requirements and identify course objectives, events, requirements, assignments, activities, resources, evaluation methods, and participation requirements in the course syllabus.

Enabling Learning Objectives
1. Identify facility requirements
   - Restroom locations
   - Food locations
   - Smoking locations
   - Emergency procedures
2. Identify classroom requirements
   - Start and end times
   - Breaks
   - Electronic device policies
   - Special needs and accommodations
   - Other requirements as applicable
3. Review course syllabus
   - Course objectives
   - Calendar of events
   - Course requirements
   - Student evaluation process
   - Assignments
   - Activities
   - Required student resources
   - Class participation requirements

Discussion Questions
1. What is a formative test? What is a summative test?

Activities
1. To be determined by the instructor.

Topic 1-2: Wildland Fire Fighter II Certification Process

Terminal Learning Objective
At the end of this topic, a student will be able to identify different levels in the Wildland Fire Fighter II certification track, the courses and requirements for Wildland Fire Fighter II certification, and be able to describe the capstone task book process.

Enabling Learning Objectives
1. Identify the different levels of certification in the Wildland Fire Fighter II certification track
Wildland Fire Fighter II

- Wildland Fire Fighter II

2. Identify the courses required for Wildland Fire Fighter II
   - National Wildfire Coordinating Group
     - S-131 Wildland Fire Fighter Type I
     - S-211 Portable Pumps and Water Use
     - S-212 Wildland Chainsaws
     - PMS-475 Basic Land Navigation

3. Identify any other requirements for Wildland Fire Fighter II

4. Describe the capstone task book process
   - Complete all prerequisites and course work
   - Submit fees and request capstone task book
   - Complete all job performance requirements included in the task book
   - Must have identified evaluator verify individual task completion via signature
   - Must have Fire Chief or authorized representative verify task book completion via signature
   - Must be employed by a California Fire Agency in the position prior to submitting completed task book to State Fire Training

Discussion Questions
1. How many levels are there in the Wildland Fire Fighter II certification track? What are they?

Activities
1. To be determined by the instructor.

Topic 1-3: General Knowledge Requirements

Terminal Learning Objective
At the end of this topic, a student, given an assignment, will be able to describe the Wildland Fire Fighter II role within the incident management system and describe basic map reading, radio, and orienteering use.

Enabling Learning Objectives
1. Describe the Wildland Fire Fighter II role within the incident management system
2. Describe basic map reading and compass use or other locating device
3. Discuss radio procedures
4. Discuss record keeping
5. Perform orienteering
6. Use radios

Discussion Questions
1. How is the role of Fire Fighter II different in wildland fire fighting versus structural fire fighting?
2. Why are maps important to wildland fire suppression?
3. Why is it important to know the correct datum for map reading?

Activities
1. To be determined by the instructor
Unit 2: Human Resource Management

Topic 2-1: Evaluating Crew Members for Suppression Duties

Terminal Learning Objective
At the end of this topic, a student, given a wildland fire, an assigned task, agency equipment standards, and crew members, will be able to evaluate the readiness of assigned crew members so that crew members are equipped and supplied for suppression duties.

Enabling Learning Objectives
1. Describe agency standards for crew readiness
2. Discuss personnel inspections procedures
3. Inspect members’ personal protective equipment, tools, supplies, qualifications, and physical fitness level

Discussion Questions
1. What are the items to be inspected prior to starting an assignment?

Activities
1. To be determined by the instructor.

Topic 2-2: Briefing Assigned Personnel

Terminal Learning Objective
At the end of this topic, a student, given an assignment, supporting information, equipment recommendations, and assigned personnel, will be able to brief assigned personnel on specific tasks, standards, safety, and operational objectives, and special interest area considerations.

Enabling Learning Objectives
1. Discuss incident and task information necessary to carry out assignments
2. Describe briefing skills

Discussion Questions
1. Where are the necessary items to conduct a briefing found?
2. What critical information should be included in a briefing?

Activities
1. Given an Incident Action Plan, a map, and an Incident Response Pocket Guide, ask students to complete a briefing.

CTS Guide Reference
1-1
2-1
2-2
**Wildland Fire Fighter II**

**Topic 2-3: Leading Wildland Fire Fighters**

**Terminal Learning Objective**
At the end of this topic, a student, given an assignment and performance standards, will be able to lead wildland fire fighters in the safe completion of a task within the standards set by agency guidelines.

**Enabling Learning Objectives**
1. Describe leadership techniques for small groups

**Discussion Questions**
1. What types of leadership techniques should be used for small groups?

**Activities**
1. To be determined by the instructor.

**CTS Guide Reference**
2-3

**Unit 3: Preparedness**

**Topic 3-1: Maintaining Power Tools and Portable Pumps**

**Terminal Learning Objective**
At the end of this topic, a student, given agency maintenance specifications, supplies, small tools, power tools, and portable pumps, will be able to maintain power tools and portable pumps, keep equipment maintained and serviceable, and recognize and ensure repair of defects.

**Enabling Learning Objectives**
1. Describe maintenance procedures for power tools and portable pumps
2. Perform power tool and portable pump preventative maintenance and repair

**Discussion Questions**
1. When should power tools and portable pumps be serviced?
2. Why is it important to properly maintain power tools and portable pumps?

**Activities**
1. To be determined by the instructor.

**Instructor Note**
1. Portable Pumps and Water Use, NWCG S-211
2. Wildland Fire Chain Saws, NWCG S-212

**CTS Guide Reference**
3-1

**Topic 3-2: Inspecting Tools and Equipment**

**Terminal Learning Objective**
At the end of this topic, a student, given agency specifications and wildland hand tools and equipment, will be able to inspect tools and equipment and ensure the availability of the tools and equipment for fire use.
Enabling Learning Objectives
1. Describe inspection guidelines for tools and equipment
2. Inspect the tools and equipment according to guidelines

Discussion Questions
1. What components should you inspect on wildland hand tools?
2. Where are in- and out-of-service criteria for hand tools located?

Activities
1. To be determined by the instructor.

CTS Guide Reference
3-2

Unit 4: Suppression

Topic 4-1: Selecting Fireline Construction Methods

Terminal Learning Objective
At the end of this topic, a student, given a wildland fire and fireline construction standards, will be able to select fireline construction methods using techniques that are compatible with the conditions and meet agency standards.

Enabling Learning Objectives
1. Discuss resource capabilities and limitations
   • Typing
   • Production rates
2. Describe fireline construction methods
   • Hand line
   • Dozer line
   • Wet line
   • Retardant line
   • Minimal Impact Suppression Tactics (MIST)
   • Backfire and burnout
3. Identify agency standards
   • Agency guidelines for rest/work cycle

Discussion Questions
1. What are the capabilities and differences between Type 1 and Type 2 hand crews?
2. What are the proper protocols for MIST?
3. What steps need to be implemented prior to conducting burning operations?
4. What risk management tool needs to be used prior to downhill line construction?

Activities
1. To be determined by the instructor.

CTS Guide Reference
4-1

Topic 4-2: Reducing Fire Exposure to Improved Properties
Terminal Learning Objective
At the end of this topic, a student, given a wildland or wildland urban interface fire and available tools and equipment, will be able to reduce fire exposure to improved properties in order to protect improvements and reduce the risk from fire.

Enabling Learning Objectives
1. Discuss fire behavior in both wildland and improved properties
2. Describe the effects of fuel modification to reduce the hazard
3. Use tools and equipment to protect the improved property

Discussion Questions
1. What are the critical fire behavior components to monitor in the wildland urban interface?
2. What factors should be considered when performing structure triage?
3. How is fuel modification used as a part of “stay and defend” or “prep and go” tactics?
4. What is the difference between “bump and run” and “fire front following”?

Activities
1. To be determined by the instructor.

CTS Guide Reference
4-2

Topic 4-3: Operating a Chain Saw

Terminal Learning Objective
At the end of this topic, a student, given an assignment at a wildland fire, operational standards, a chain saw, safety equipment, and personal protective equipment, will be able to operate a chain saw until the assignment is safely completed.

Enabling Learning Objectives
1. Describe agency operational standards for chain saw operation and safety
2. Describe agency operational standards for tool selection
3. Describe agency operational standards for personal protective equipment used during saw use
4. Describe agency operational standards for site preparation
5. Describe agency operational standards for handling and cutting techniques
6. Describe agency operational standards for use of wedges
7. Describe agency operational standards for saw and equipment transportation

Discussion Questions
1. What are the three basic levels of felling?
2. What personal protective equipment needs to be worn when operating a chainsaw?

Activities
1. To be determined by the instructor.

Instructor Note
1. Wildland Fire Chain Saws, NWCG S-212

CTS Guide Reference
4-3
Topic 4-4: Operating Water Delivery Equipment

Terminal Learning Objective
At the end of this topic, a student, given an assignment at a wildland fire, operational standards, and water delivery equipment, will be able to operate water delivery equipment, select the proper equipment, attain desired nozzle pressure, and maintain flow.

Enabling Learning Objectives
1. Describe basic hydraulic theories
2. Discuss pump and water delivery system capabilities
3. Describe operation of pumps
4. Describe basic drafting
5. Identify associated equipment
6. Describe placement, operation, and system setup

Discussion Questions
1. What is the basic theory behind drafting?
2. What environmental concerns need to be mitigated when operating portable pumps?
3. What are some common trouble-shooting techniques for portable pumps?

Activities
1. To be determined by the instructor.

Instructor Note
1. Portable Pumps and Water Use, NWCG S-211

CTS Guide Reference
4-4

Topic 4-5: Securing Fire Origin and Evidence Preservation

Terminal Learning Objective
At the end of this topic, a student, given a wildland fire and agency procedures, will be able to secure the area of suspected fire origin and associated evidence, protect all evidence or potential evidence from damage or destruction, and report all evidence to a supervisor.

Enabling Learning Objectives
1. Discuss types of evidence
2. Discuss the importance of site security and evidence preservation
3. Describe evidence preservation techniques
4. Discuss use of marking devices for site security

Discussion Questions
1. What is the proper type of flagging to be used for site security?

Activities
1. To be determined by the instructor.

CTS Guide Reference
4-5

Topic 4-6: Serving as a Lookout
Terminal Learning Objective
At the end of this topic, a student, given an assignment at a wildland fire as per agency procedures, will be able to serve as a lookout and update or warn fire fighters when conditions change.

Enabling Learning Objectives
1. Describe basic fire behavior
2. Describe how to recognize hazardous situations
3. Discuss communication methods
4. Discuss equipment and procedures
5. Accurately describe fire behavior and change in fire behavior through verbal communication, hand signals, or use of communication equipment

Discussion Questions
1. What type of equipment should a lookout have?
2. What are some qualities of a good lookout?
3. What human factors were involved in the creation of LCES?

Activities
1. To be determined by the instructor.

CTS Guide Reference
4-6
## Time Table

<table>
<thead>
<tr>
<th>Segment</th>
<th>Lecture Time</th>
<th>Activity/ Skill Time</th>
<th>Total Unit Time</th>
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</thead>
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<tr>
<td><strong>Unit 1: Introduction</strong></td>
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<td></td>
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<tr>
<td>Topic 1-1: Orientation and Administration</td>
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### Wildland Fire Fighter II

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<td>Skills 2:00</td>
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| Total Lecture Time (LT) | 64:00 |
| Total Activity Time (AT) | 21:00 |
| Total Testing Time (TT) | 8:00 |
| **Total Course Time** | 93:00 |
Identification

Candidate: ______________________________________________________________

SFT ID Number: __________________________________________________________

Mailing Address: _________________________________________________________

Phone (Home): _______________    Phone (Mobile): _______________

Phone (Work): _______________    Email: _____________________________

Agency: _________________________________________________________________

Mailing Address: _________________________________________________________

Instructions

1. To apply for certification, download (from the SFT website) and print:
   a. The SFT Fee Schedule

2. On the SFT Fee Schedule:
   a. Check the box indicating the desired job function certification
   b. Write in the Total Submitted amount
   c. Complete the bottom portion
   d. Sign and date

3. A complete Wildland Fire Fighter II certification application package includes:
   a. The SFT Fee Schedule
   b. Nonrefundable payment by check or money order (payable to CAL FIRE – State Fire Training)
   c. The application for certification
   d. All supporting and verification documentation

4. Submit the complete application for certification package to:

   State Fire Training
   Attn: Cashier
   PO Box 997446
   Sacramento, CA 95899-74
Education

1. Document the completion of each required course.
2. Submit verification of course completion (transcript, PACE equivalency letter, certification of completion, etc.) for any course completed outside of State Fire Training.

<table>
<thead>
<tr>
<th>Course</th>
<th>Completion Date (listed on certificate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wildland Fire Fighter II</td>
<td></td>
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</tbody>
</table>

Certification Exam

1. Document the examination date and your score.
2. Submit verification of certification exam completion for any exam offered by an agency, institution, or organization other than State Fire Training.

<table>
<thead>
<tr>
<th>Exam</th>
<th>Examination Date</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wildland Fire Fighter II</td>
<td></td>
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</tbody>
</table>
Authorities

1. Print name, sign, and date the candidate statement.
2. Ask your fire chief or the authorized designee to complete the fire chief statement.

Candidate

Candidate: _______________________________________________________________

Candidate’s Printed Name

I, the undersigned, am the person applying for a Wildland Fire Fighter I Certification. I hereby certify under penalty of perjury under the laws of the State of California, that all information contained in this application is true in every respect. I understand that misstatements, omissions of material facts, or falsification of information or documents may be cause for rejection.

__________________________________________     ____________________________
Candidate’s Signature                           Date

Candidate’s Fire Chief

Candidate’s Fire Chief: _____________________________________________________

Fire Chief’s (or Authorized Designee’s) Printed Name

I, the undersigned, am the person authorized to verify the candidate’s application information. I hereby certify under penalty of perjury under the laws of the State of California, that all information contained in this application is true in every respect. I understand that misstatements, omissions of material facts, or falsification of information or documents may be cause for rejection.

__________________________________________     ____________________________
Fire Chief’s (or Authorized Designee’s) Signature                           Date
Approval and Authorization

This section is for State Fire Training use only.

Incomplete Application
☐ The candidate has not met all application requirements and will be notified of missing or incomplete items (including fees) in writing with a checklist for completion.

__________________________________________
State Fire Training Representative’s Signature

______________________________________
Date

Complete Application
☐ The candidate has met all application requirements and will be issued Wildland Fire Fighter II certification.

__________________________________________
State Fire Training Representative’s Signature

______________________________________
Date
Wildland Fire Fighter II

Certification Task Book
[Month Year]

California Department of Forestry and Fire Protection
Office of the State Fire Marshal
State Fire Training
This Certification Task Book includes the certification training standards included in Wildland Fire Fighter II CTS Guide ([Month Year]) which is based on NFPA 1001 Standard for Fire Fighter Professional Qualifications 2013 and NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2012

Published by:
State Fire Training, 1131 S Street, Sacramento, CA  95811
(916) 445-8200

Cover photo courtesy of Dave Boyce, Almanac News
Table of Contents

Purpose and Process .................................................................................................................. 1
Task Book Requirements ......................................................................................................... 4
  Experience .......................................................................................................................... 4
  Rank or Position ................................................................................................................ 4
  Job Performance Requirements ......................................................................................... 5
Authorities ............................................................................................................................ 7
Review and Approval ............................................................................................................ 8
Signature Verification ............................................................................................................ 9
Purpose and Process

The State Fire Training certification task book is a performance-based document. It lists the Experience, Rank or Position, and Job Performance requirements for certification.

### Purpose

Each certification task book focuses on a single State Fire Training job function certification. A certification task book identifies the minimum requirements necessary to perform the duties of that certification. Completion of a certification task book verifies that the candidate has the required experience, holds the required rank or position, and has demonstrated the job performance requirements necessary to obtain that certification.

### Responsibilities

#### Candidate Responsibilities

The candidate is the individual pursuing certification.

All candidates shall:
- Complete a block on the Signature Verification page with an original wet-ink signature.
- Complete the Experience, Rank, and Job Performance Requirements.
- Accurately record and maintain the certification task book.
- Sign and date the Candidate verification statement under the Authorities with an original wet-ink signature.
- Retain a copy of the completed certification task book.
- Submit the completed certification task book to State Fire Training.

#### Evaluator Responsibilities

An evaluator is any individual who verifies that the candidate can satisfactorily execute a job performance requirement. A qualified evaluator is designated by the candidate's fire chief (or authorized designee) and shall possess the equivalent or higher-level certification. If no such evaluator is present within the organization, the fire chief (or authorized designee) shall designate an individual with more experience than the candidate and a demonstrated ability to execute the job performance requirements. A certification task book may have more than one evaluator.

All evaluators shall:
- Complete a block on the Signature Verification page with an original wet-ink signature.
- Review and understand the candidate's certification task book requirements and responsibilities.
Purpose and Process

- Verify the candidate’s successful completion of one or more job performance requirements through observation or review.
- Sign all appropriate lines in the certification task book with an original wet-ink signature to record demonstrated performance of tasks.

Fire Chief Responsibilities

The fire chief (or authorized designee) is the individual who reviews and confirms the completion of a candidate’s certification task book.

The fire chief (or authorized designee) shall:
- Designate qualified evaluators.
- Complete a block on the Signature Verification page with an original wet-ink signature.
- Review the candidate’s certification task book requirements and responsibilities.
- Verify the candidate has obtained the appropriate signatures to verify successful completion of each job performance requirement.
- Sign the fire chief verification statement under Authorities with an original wet-ink signature. If signing as an authorized designee, verify that your signature is on file with State Fire Training.

Completion Process

When you receive your certification task book:

1. Thoroughly review the Experience, Rank, and Job Performance Requirements segments to make sure that you understand them.
2. Confirm who will evaluate your job performance requirements with your fire agency.
3. Complete the Experience segment, if applicable.
4. Complete the Rank or Position segment.
5. Complete each requirement in the Job Performance Requirements segment and ensure that an evaluator signs and dates each one to verify completion.
6. Ask your fire chief (or authorized designee) to verify certification task book completion by signing the appropriate paragraph under Authorities.
7. Make a copy of the completed certification task book to retain with your personal records.
8. Mail the original certification task book to State Fire Training (see address below).

After receipt and review of your completed certification task book, State Fire Training will authorize the certification task book and mail your certificate to you. State Fire Training retains the completed, authorized original certification task book in your career file.
If State Fire Training determines that your certification task book is incomplete State Fire Training will return your certification task book with a checklist indicating what needs to be completed.

Do not submit this certification task book until you have:
- Completed the Experience segment
- Fulfilled the Rank or Position segment
- Completed Job Performance Requirements
- Obtained all required signatures

State Fire Training Mailing Address

Office of the State Fire Marshal  
State Fire Training  
Attn: Certification Section  
1131 S Street  
Sacramento, CA 95811

Completion Timeframe

State Fire Training aims to update certification task books on a five-year cycle. A certification task book in process is valid until State Fire Training issues a new certification task book for the same job function certification.

If a candidate does not complete a certification task book before the release of a new version, State Fire Training will send the candidate a task book revision supplement identifying any revisions or new requirements. The candidate must fulfill all requirements included in the revision supplement and submit the revision supplement with the original task book.
Task Book Requirements

Experience

The candidate meets the following requirements for experience.

☐ [Insert experience requirement]

[and/or]

☐ [Insert experience requirement]

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Agency</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
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Please attach additional pages if more space is needed to document experience.

Rank or Position

The candidate meets the following qualifications for rank or position. Performing in an acting capacity does not qualify.

<table>
<thead>
<tr>
<th>Rank or Position</th>
<th>Agency</th>
<th>Appointment Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firefighter</td>
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</table>
Job Performance Requirements

All job performance requirements must be performed in accordance with the standards of the authority having jurisdiction (AHJ) or the National Fire Protection Association (NFPA), whichever is more restrictive.

Human Resource Management

1. **6.2.1** Evaluate the readiness of assigned crew members, given a wildland fire, an assigned task, and agency equipment standards, so that crew members are equipped and supplied for suppression duties.

   ____________________________  ____________________________
   Date Completed               Evaluator Verification

2. **6.2.2** Brief assigned personnel, given an assignment, supporting information, and equipment requirements, so that the personnel are informed of specific tasks, standards, safety, operational, and special interest area considerations.

   ____________________________  ____________________________
   Date Completed               Evaluator Verification

3. **6.2.3** Lead wildland fire fighters in the performance of a task, given an assignment and performance standards, so that the task is safely completed within the standards in accordance with agency guidelines.

   ____________________________  ____________________________
   Date Completed               Evaluator Verification

Preparedness

1. **6.3.2** Maintain power tools and portable pumps, given agency maintenance specifications, supplies, and small tools, so that equipment is maintained and serviceable and defects are recognized and repaired.

   ____________________________  ____________________________
   Date Completed               Evaluator Verification

2. **6.3.3** Inspect tools and equipment, given agency specifications, so that availability of the tools and equipment for fire use is ensured.

   ____________________________  ____________________________
   Date Completed               Evaluator Verification
Suppression

1. **6.5.2** Select fireline construction methods, given a wildland fire and line construction standards, so that the technique used is compatible with the conditions and meets agency standards.

   ________________  ________________
   Date Completed   Evaluator Verification

2. **6.5.3** Effect the reduction of fire exposure to improved properties given a wildland or wildland/urban interface fire and available tools and equipment so that improvements are protected and the risk from fire is reduced.

   ________________  ________________
   Date Completed   Evaluator Verification

3. **6.5.4** Operate a chain saw, given an assignment at a wildland fire and operational standards, so that the assignment is safely completed.

   ________________  ________________
   Date Completed   Evaluator Verification

4. **6.5.5** Operate water delivery equipment, given an assignment at a wildland fire and operational standards, so that the proper equipment is selected, desired nozzle pressure is attained, and flow is maintained.

   ________________  ________________
   Date Completed   Evaluator Verification

5. **6.5.6** Secure the area of suspected fire origin and associated evidence, given a wildland fire and agency procedures, so that all evidence or potential evidence is protected from damage or destruction and reported to a supervisor.

   ________________  ________________
   Date Completed   Evaluator Verification

6. **6.5.7** Serve as a lookout, given an assignment at a wildland fire as per agency procedures, so that fire fighters are updated or warned when conditions change.

   ________________  ________________
   Date Completed   Evaluator Verification
Authorities

Candidate

Candidate: ____________________________________________

Candidate’s Printed Name

I, the undersigned, am the person applying for certification. I hereby certify under penalty of perjury under the laws of the State of California, that completion of all experience, rank, and job performance requirements made herein are true in every respect. I understand that misstatements, omissions of material facts, or falsification of information or documents may be cause for rejection or revocation.

______________________________  ______________________
Candidate’s Signature             Date

Candidate’s Fire Chief

Candidate’s Fire Chief: ________________________________

Fire Chief’s (or Authorized Designee’s) Printed Name

I, the undersigned, am the person authorized to verify the candidate’s experience, rank, and job performance requirements. I hereby certify under penalty of perjury under the laws of the State of California, that completion of all experience, rank, and job performance requirements made herein are true in every respect. I understand that misstatements, omissions of material facts, or falsification of information or documents may be cause for rejection.

______________________________  ______________________
Fire Chief’s (or Authorized Representative’s) Signature             Date
Review and Approval

This section is for State Fire Training use only.

**State Fire Training Review**

I have reviewed this certification task book and verify that it is:

- [ ] Complete
- [ ] Incomplete

(See attached form for required revisions or corrective action.)

________________________________
State Fire Training Representative’s Signature

___________________
Date

**Certification Issued**

I verify that the candidate has met all requirements for this job function certification.

________________________________
State Fire Training Representative’s Signature

___________________
Date
**Signature Verification**

The following individuals have the authority to verify portions of this certification task book using the signature or initials recorded below.

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