

# **CERTIFICATION CURRICULUM MANUAL**

## **CHAPTER ELEVEN**

### **WILDLAND FIRE FIGHTER**

**2013 Edition**

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## RECOMMENDED REFERENCE LIST FOR THE BASIC WILDLAND FIRE FIGHTER CURRICULUM

Certified Training Facilities approved to teach this curriculum must have the following reference materials:

*Firefighter Training S-130, Instructor Guide* (2003). Boise, ID: National Wildfire Coordinating Group. National Interagency Fire Center.

*Firefighter Training S-130, Student Work Book* (2003). Boise, ID: National Wildfire Coordinating Group. National Interagency Fire Center.

*Fireline Handbook* (March, 2004). Boise, ID: National Wildfire Coordinating Group. National Interagency Fire Center.

*Incident Response Pocket Guide (IRPG)* (2010). Boise, ID: National Wildfire Coordinating Group. National Interagency Fire Center.

*Introduction to Wildland Fire Behavior S-190, Instructor Guide* (March, 2006). Boise, ID: National Wildfire Coordinating Group. National Interagency Fire Center.

*Introduction to Wildland Fire Behavior S-190, Student Work Book* (March, 2006). Boise, ID: National Wildfire Coordinating Group. National Interagency Fire Center.

*New Generation Fire Shelter* (2003). [DVD] Boise, ID: National Wildfire Coordinating Group. National Interagency Fire Center.

*NFPA 1051: Standard for Wildland Fire Fighter Professional Qualifications* (2012 Ed.). Quincy, MA: National Fire Protection Association. NFPA Publications

*Standards Manual for Fire Protection Personnel*. Austin, TX: Texas Commission on Fire Protection.

**CHAPTER ELEVEN**  
**BASIC WILDLAND FIRE FIGHTER**  
**CURRICULUM OUTLINE**

<b>SECTION</b>	<b>SUBJECT</b>	<b>RECOMMENDED HOURS</b>
<b>Basic Wildland Fire Fighter</b>		
1101-5.1	General	5
1101-5.2	Human Resource Management	0
1101-5.3	Preparedness	5
1101-5.4	Mobilization	0
1101-5.5	Suppression	30
<b>TOTAL RECOMMENDED HOURS</b>		<b>40</b>

\*The recommend hours total is based on a class of 12 students. Actual hours required will depend on the number of students, the number of examiners, availability of equipment, and the student skill level.

**SECTION 1101**  
**BASIC WILDLAND FIRE FIGHTER**

**1101-5.1**     **General**

1101-5.1.1     The Basic Wildland Fire Fighter shall meet the JPRs defined in Sections 1101-5.1 through 1101-5.5.

**Requisite Knowledge.** Fireline safety, use, and limitations of personal protective equipment, agency policy on fire shelter use, basic wildland fire behavior, fire suppression techniques, basic wildland fire tactics, the fire fighter's role within the local incident management system, and first aid.

1.     Fireline safety
  - a.     Fire behavior (see S-190, *Introduction to Wildland Fire Behavior*)
  - b.     Ten standard fire orders (see NFES 0065, *Fireline Handbook*)
  - c.     Eighteen "Watch out" situations (see NFES 0065, *Fireline Handbook*)
  - d.     Downhill indirect line construction checklist (see NFES 1077, *Incident Response Pocket Guide [IRPG]*)
  - e.     LCES (lookouts, communications, escape routes, and safety zones)
  - f.     NFES 2712, *New Generation Fire Shelter DVD*
  - g.     Look up, down and around (see NFES 1077, *Incident Response Pocket Guide [IRPG]*)
  - h.     Briefing checklist (see NFES 1077, *Incident Response Pocket Guide [IRPG]*)
  - i.     Wildland engine safety
2.     Use of personal protective equipment (PPE)
3.     Limitations of personal protective equipment (PPE)
4.     Agency policy on fire shelter use (AHJ)
5.     Basic wildland fire behavior
6.     Fire suppression techniques
7.     Basic wildland fire tactics

8. The fire fighter's role within the local incident management system (AHJ)
9. First aid
  - a. *Fireline Handbook*, Chapter 1, Firefighter Health
  - b. *IRPG*, Section 7

**Requisite Skills.** Basic verbal communications and the use of required personal protective equipment.

**1101-5.2** **Human Resource Management.** No JPRs at this level

**1101-5.3** **Preparedness**

**1101-5.3.1** **Definition of Duty.** Activities in advance of fire occurrence to ensure safe and effective suppression action.

**1101-5.3.2** Maintain assigned personal protective equipment, given the standard equipment issue, so that the equipment is serviceable and available for use on the fireline and defects are recognized and reported to the supervisor.

**Requisite Knowledge.** Maintenance of personal protective equipment, including inspection, the recognition of unserviceable items, and proper cleaning procedures.

Maintenance of personal protective equipment (PPE) to include:

1. Inspection
  - a. Fire shelter
  - b. Pants
  - c. Shirt
  - d. Gloves
  - e. Helmet
  - f. Eye protection
  - g. Wildland boots
2. Recognition of unserviceable items
  - a. Conditions that make an item unserviceable
  - b. Procedures for replacement
3. Proper cleaning procedures – per manufacturers' recommendations

**Requisite Skills.** No requisite skills required at this level.

- 1101-5.3.3** Maintain assigned suppression hand tools and equipment, given tools and equipment and agency maintenance specifications, so that assigned equipment is safely maintained and serviceable and defects are recognized and reported to the supervisor.

**Requisite Knowledge.** Inspection of tools and assigned suppression equipment, the recognition of unserviceable items, and required maintenance techniques.

1. Inspection of tools (hand tools)
  - a. Shovel
  - b. Pulaski
  - c. Council rake
  - d. McLeod
  - e. Flapper
  - f. Other AHJ tools
2. Inspection of assigned suppression equipment
  - a. Backpack pumps
  - b. Hose
  - c. Nozzles
  - d. Hose clamps
  - e. Fittings
  - f. Other AHJ suppression equipment
3. Recognition of unserviceable items
  - a. Conditions that make an item unserviceable
  - b. Procedures for replacement
4. Required maintenance techniques – per manufacturers' recommendations

**Requisite Skills.** Sharpening and other maintenance techniques for assigned suppression equipment, and use of required maintenance equipment.

**1101-5.4** **Mobilization.** No JPRs at this level.

**1101-5.5** **Suppression**

**1101-5.5.1** **Definition of Duty.** All activities to confine and extinguish a wildland fire, beginning with dispatch.

- 1101-5.5.2** Assemble and prepare for response, given an assembly location, an assignment, incident location, mode of transportation, and the time requirements, so that arrival at the incident with the required personnel and equipment meets agency guidelines.

**Requisite Knowledge.** Equipment requirements, agency time standards and special transportation considerations (weight limitations), agency safety, and operational procedures for various transportation modes.

1. Equipment requirements
2. Agency time standards
3. Special transportation considerations (weight limitations)
4. Agency safety
5. Operational procedures for various transportation modes
  - a. Vehicle
  - b. Boat
  - c. Helicopter
  - d. Fixed wing aircraft
  - e. Foot travel

**Requisite Skills.** None specified.

- 1101-5.5.3** Recognize hazards and unsafe situations given a wildland or wildland/urban interface fire and the standard safety policies and procedures of the agency, so that the hazard(s) and unsafe condition(s) are promptly communicated to the supervisor and appropriate action is taken.

**Requisite Knowledge.** Basic wildland fire safety, fire behavior, and suppression methods.

1. Basic wildland fire safety
  - a. Fire behavior (see S-190, *Introduction to Wildland Fire Behavior*)
  - b. Ten standard fire orders (see NFES 0065, *Fireline Handbook*)
  - c. Eighteen "Watch out" situations (see NFES 0065, *Fireline Handbook*)
  - d. Downhill indirect line construction checklist (see NFES 1077, *Incident Response Pocket Guide [IRPG]*)

- e. LCES (lookouts, communications, escape routes, and safety zones)
  - f. NFES 2712, *New Generation Fire Shelter DVD*
2. Fire behavior
    - a. Fire triangle
    - b. Methods of heat transfer
    - c. Basic terminology
    - d. Factors that affect fire behavior
      - 1) Topography
      - 2) Weather
      - 3) Fuels
  3. Suppression methods
    - a. Direct
    - b. Indirect
    - c. Parallel

**Requisite Skills.** None specified.

- 1101-5.5.4** Construct a fireline, given a wildland fire, agency line construction standards, suppression tools, water or other suppression agents, and equipment, so that the fireline conforms to the construction standard.

**Requisite Knowledge.** Principles of fireline construction, techniques, and standards.

1. Principles of fireline construction
2. Fireline construction techniques
3. Fireline construction standards (AHJ)

**Requisite Skills.** Correct use of hand tools, fire stream practices, and agent application.

- 1101-5.5.5** Secure the fireline, given a wildland fire and suppression tools, water or other suppression agents, and equipment, so that burning materials and unburned fuels that threaten the integrity of the fireline are located and abated.

**Requisite Knowledge.** Line improvement techniques and safety considerations when burning out.

1. Line improvement techniques

2. Safety considerations when burning out

**Requisite Skills.** Use of basic ignition devices.

- 1101-5.5.6** Describe the methods to reduce the threat of fire exposure to improved properties given a wildland or urban/interface fire, suppression tools, and equipment so that improvements are protected.

**Requisite Knowledge.** Wildland fire behavior, wildland fuel removal, structure protection methods, and equipment and personnel capabilities.

1. Wildland fire behavior
  - a. Wildland-Urban Watch-Outs
  - b. Factors that affect fire behavior
    - 1) Topography
    - 2) Weather
    - 3) Fuels
2. Wildland fuel removal
  - a. Create a defensible space
3. Structure protection methods
  - a. Structural triage
  - b. Modes of operation
    - 1) Offensive
    - 2) Defensive
    - 3) Combined
4. Equipment capabilities
  - a. Type and kind
5. Personnel capabilities
  - a. Training
  - b. Qualifications
  - c. Experience

**Requisite Skills.** The application of requisite knowledge to protect structures.

- 1101-5.5.7** Mop up fire area, given a wildland fire, suppression tools, and water or other suppression agents and equipment, so that burning fuels that threaten escape are located and extinguished.

**Requisite Knowledge.** Mop-up principles, techniques, and standards.

1. Mop-up principles
2. Mop-up techniques
  - a. Wet
  - b. Dry
  - c. Cold trailing
3. Mop-up standards (AHJ)

**Requisite Skills.** Use of basic tools and techniques to perform mop-up operations.

**1101-5.5.8** Patrol the fire area, given a wildland fire, suppression tools, and equipment, so that control of the fire area is maintained.

**Requisite Knowledge.** Patrol principles, techniques, and standards.

1. Patrol principles
2. Patrol techniques
3. Patrol standards (AHJ)

**Requisite Skills.** The application of requisite knowledge.