



# Nevada Fire Service Certification System

## Fire Fighter and Hazardous Materials Equipment List

Fire & Hazardous Material Training & Certification Bureau  
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## **FACILITY, STRUCTURE, AND EQUIPMENT RECOMMENDATIONS**

### **Laddering skills require:**

1. A structure at least 30 feet high or two and a half stories to the roof, and allow ladders to be raised against the building and above the roof level.
2. Entry doors and windows capable of sustained forcible entry or other training operations.
3. Building area that is free of overhead or other obstructions that can present hazards.
4. Building area is free of obstacles around the structure to allow ladder maneuvering.

### **Ventilation skills require:**

1. A structure with a safe roof or roof-prop that can be cut with axe and/or saw appropriate for required skills.
2. A structure with entrance(s) and exit(s) that can sustain large volumes of air passing through it.

### **Hose and Nozzle skills require:**

1. A structure with a minimum of two (2) flights of stairs and a stairway standpipe connection or standpipe prop.
2. A structure designed to eliminate water damage from training operations.

### **Apparatus requirements:**

1. One apparatus per five (5) students is required.
2. Apparatus shall meet the current NFPA standard 1901 for the year of manufacture and have appropriate safety upgrades i.e.: man bars, man nets, seat belts and hearing protection.
3. Apparatus shall meet the following minimum requirements:
  - 250 gallon tank
  - Pump with 1250 gpm capacity
4. Equipment on apparatus (minimum):
  - 300' LDH (3" or larger)
  - 600' 2 ½" supply hose
  - 2 - 200' 1 ¾" pre-connect attack line with nozzles
  - 200' 2 ½" pre-connect attack line with nozzle
  - 100' 1 ¾" high rise pack with nozzle
  - 20' total of drafting hose
  - Master stream device with stand
    - Fog nozzle
    - Stack of tips
  - Adapters:

- 2 - Double males (1 in hydrant bag)
- 2 - Double females (1 in hydrant bag)
- 2 ½" male to storz
- 2 ½" female to storz
- 2 - 2 ½" to 1 ¾" gated wye (1 in high rise bag)
- 2 ½" to 2 ½" gated wye
- Rubber mallet
- Hose strap
- 2 ½" spanner wrenches (3 sets; 1 in hydrant bag, 1 in high rise bag)
- 2 sets of 5" spanner wrenches (1 in hydrant bag)
- 3 hydrant wrenches (1 in hydrant bag)
- 2 ½" fog nozzle with pistol grip
- 1 ¾" fog nozzle with pistol grip
- 3 - 2 ½" gate valves (two in hydrant bag, 1 in high rise bag)
- Foam eductor matched to 1 ¾" fog nozzle
- 5" hydrant gate with fitting for LDH
- Dry chemical extinguisher
- Pressurized water extinguisher
- 2 - 10' X 12' or larger salvage covers
- 10 lbs. sledge hammer
- 2 - 6' or larger pike pole
- Two sets of irons with straps
  - Halligan tool
  - Flat head axe
- 2 - pick head axes
- 6' rubbish hook
- Bolt cutters
- Chainsaw
- 2 1/2" press down hose clamp
- 200' of utility rope (1/2" or 11mm) in a bag
- Hydrant bag (to hold the above noted items)
- High rise bag (to hold the above noted items plus those listed below)
  - 6' length of 2 ½" hose
  - Pipe wrench
- PPV fan
- Big beam light box with charger hardwired to engine
- 4 traffic cones
- Wheel chocks
- 24' extension ladder
- 12' roof ladder

**Fire Ground Operations:**

1. Area must be large enough to allow the largest truck to safely maneuver around during operational drills.
2. Area must be long enough to allow maneuvers for class activities such as pump operation and hose lays.

**Hazardous Materials Operations training requirements:**

1. Curriculum, equipment and protective suits to accomplish the tasks as outlined in the operations level training.
2. One protective suit for every student.
3. Equipment to establish training for a multiple station decontamination area.
4. Equipment necessary to perform diking and damming operations.
5. Sand or Dirt: one ton per class.

**Personal Protective Equipment and SCBA requirements:**

1. One full ensemble of current NFPA 1971 compliant protective turnout clothing furnished and dedicated for each student, suitable for the activity being taught.
2. An SCBA mask for each student.
3. The student will be fit tested as per current NFPA / NIOSH standards.

**Grounds and Structures:**

1. 100 X 100 ft area per 20 students.
2. 300 ft long run in area for truck operations.
3. Training grounds wide enough to turn around the largest fire truck.
4. Structure with a 30 ft high roof, suitable for laddering.
5. Structure with two flights of stairs and a standpipe or standpipe prop.
6. Restrooms shall be available for students and instructors during all training operations.
7. Contingency plans shall be in place for times or weather not conducive to safe outdoor training operations.
8. Adequate lighting for safe operations must be provided.

**Water Supplies:**

1. The training area must have at least two (2) usable hydrants.
2. Hydrant system needs to sustain at least one thousand (1000) GPM for one hour.
3. The training area is equipped with sufficient drains to safely drain off one thousand (1000) gal per minute flow.

# Fire Fighter and Hazardous Materials Testing Equipment List

## FIRE FIGHTER I

### 5.1.2 *General Skills*

Personal Protective Clothing  
Ropes  
Department Procedures

### 5.2 *Communications*

Department type portable radio  
Department forms for reporting emergencies

### 5.3 *Fire Ground Operations*

#### 5.3.1 *SCBA*

SCBA  
Spare Bottle

#### 5.3.2 *Responding Apparatus*

Hearing Protection on Vehicles  
Seat belts

#### 5.3.3 *Operating in Established Work Areas*

10 Cones

#### 5.3.4 *Forcible Entry*

(3) Forcible entry Tools used by department

#### 5.3.5 *Exit Hazardous Area*

Department type portable radio  
Personal Protective Clothing  
Ropes, Utility  
SCBA  
Forcible Entry Tools

#### 5.3.6 *Set up Ground Ladders*

Ladders (1) roof, (1) extension  
SCBA  
Personal Protective Clothing  
Type I Harness

5.3.7 *Attack vehicle fire*

Department type portable radio  
Personal Protective Clothing  
SCBA  
Forcible Entry Tools  
1 ½ or 1 ¾ hand lines (6) 50 foot lengths  
(2) 1 ½ or 1 ¾ nozzles  
Wye  
Hydrant wrench  
2 ½ Gate Valve

5.3.8 *Extinguish Class A Materials*

Department type portable radio  
Personal Protective Clothing  
SCBA  
Forcible Entry Tools  
1 ½ or 1 ¾ hand lines (6) 50 foot lengths  
(2) 1 ½ or 1 ¾ nozzles  
Wye  
Hydrant wrench  
2 ½ Gate Valve

5.3.9 *Conduct Search and Rescue*

Department type portable radio  
Personal Protective Clothing  
SCBA  
Black outs for mask  
Forcible Entry Tools  
1 ½ or 1 ¾ hand lines (6) 50 foot lengths  
(2) 1 ½ or 1 ¾ nozzles  
Wye  
Hydrant wrench  
2 ½ Gate Valve  
Flash lights  
Rescue Dummy  
PPV Fan  
Ladders

5.3.10 *Attack Interior Structure Fire*

Department type portable radio  
Personal Protective Clothing  
SCBA  
Black outs for mask  
Forcible Entry Tools

1 ½ or 1 ¾ hand lines (6) 50 foot lengths  
(2) 1 ½ or 1 ¾ nozzles  
Wye  
Hydrant wrench  
2 ½ Gate Valve  
Flash lights  
Rescue Dummy  
PPV Fan  
Ladders

#### 5.3.11 *Horizontal Ventilation*

Department type portable radio  
Personal Protective Clothing  
SCBA  
Forcible Entry Tools  
1 ½ or 1 ¾ hand lines (6) 50 foot lengths  
(2) 1 ½ or 1 ¾ nozzles  
Wye  
Flash lights  
Ladders (1) roof, (1) extension  
Ropes, Utility  
Saws, (Chain or Circular)

#### 5.3.12 *Vertical Ventilation*

Department type portable radio  
Personal Protective Clothing  
SCBA  
Forcible Entry Tools  
1 ½ or 1 ¾ hand lines (6) 50 foot lengths  
(2) 1 ½ or 1 ¾ nozzles  
2 ½ Gate Valve  
Flash lights  
PPV Fan

#### 5.3.13 *Overhaul*

Department type portable radio  
Personal Protective Clothing  
SCBA  
Forcible Entry Tools  
1 ½ or 1 ¾ hand lines (6) 50 foot lengths  
(2) 1 ½ or 1 ¾ nozzles



5.3.14 *Conserve Property*

Department type portable radio  
Personal Protective Clothing  
SCBA  
Salvage Covers  
Sprinkler wedges  
Main control valve on sprinkler system

5.3.15 *Water Supply*

Personal Protective Clothing  
Supply hose, 2 ½ or greater  
Hydrant wrench  
Gate valve  
Double male  
Double female  
4 way valve if department has one  
Hard suction  
Portable water tank  
Low level strainer  
Barrel strainer  
Jet siphon  
Salvage cover

5.3.16 *Extinguishers*

Personal Protective Clothing  
Class ABC extinguisher  
Class BC extinguisher

5.3.17 *Illuminate fire scene*

Personal Protective Clothing  
Power supply  
Lighting equipment  
GFI devices  
Cords and connectors

5.3.18 *Building Utilities*

Personal Protective Clothing  
SCBA  
Electrical shutoff  
Natural gas shutoff  
Propane tank shutoff

5.3.19 *Ground Cover Fire*

Fire line construction hand tools  
Department type portable radio  
Personal Protective Clothing  
½ or 1 ¾ hand lines (6) 50 foot lengths

5.3.20 *Knot for Hoisting Tools*

Personal Protective Clothing  
Ropes  
Department Procedures

5.4 *Rescue*

No requirement

5.5 *Preparedness and Maintenance*

Personal Protective Clothing  
Maintenance Record  
Department Procedures

5.5.1 *Clean and Inspect Various Tools and Equipment*

Ladders (1) roof, (1) extension  
Bucket  
Water  
Soap  
Rags

5.5.2 *Clean and inspect fire hose*

1 ½ or 1 ¾ hand lines (6) 50 foot lengths  
2 ½ hand lines (3) 50 foot lengths  
Water  
Soap  
Brushes

## FIRE FIGHTER II

### 6.1 *General*

#### 6.1.1 *Departments Incident Command System*

NIMS Incident Command System Functions  
Department's policy on passing command

### 6.2 *Fire Department Communications*

#### 6.2.1 *Fire Departments NFIRS Report*

Report Forms  
Codes for Fire Department Reports  
Computer

#### 6.2.2 *Communicate "Team needs Assistance"*

Department Mayday Procedure  
Department RIT, RIC Procedure  
Department type portable radio

### 6.3 *Fireground Operations*

#### 6.3.1 *Ignitable Liquid Fire*

Personal Protective Clothing  
SCBA  
Spare Bottle  
3 Forcible entry Tools used by department  
Ladders (1) roof, (1) extension  
1 ½ or 1 ¾ hand lines (6) 50 foot lengths  
2 ½ hand lines (3) 50 foot lengths  
(2) 1 ½ or 1 ¾ nozzles  
(1) 2 ½ nozzle  
Wye  
Foam Proportioning Device  
Foam Concentrate

#### 6.3.2 *Coordinate Interior Attack*

Personal Protective Clothing  
Department type portable radio  
SCBA  
Spare Bottle  
3 Forcible entry Tools used by department  
Ladders (1) roof, (1) extension

1 ½ or 1 ¾ hand lines (6) 50 foot lengths  
2 ½ hand lines (3) 50 foot lengths  
(2) 1 ½ or 1 ¾ nozzles  
(1) 2 ½ nozzle  
Wye

### 6.3.3 *Control Flammable Gas Cylinder Fire*

Department type portable radio  
Personal Protective Clothing  
SCBA  
Spare Bottle  
1 ½ or 1 ¾ hand lines (6) 50 foot lengths  
2 ½ hand lines (3) 50 foot lengths  
(2) 1 ½ or 1 ¾ nozzles  
(1) 2 ½ nozzle  
Wye  
Flammable Gas cylinder Prop

### 6.3.4 *Protect evidence*

Banner Tape  
Evidence Prop

## 6.4 *Rescue Operations*

### 6.4.1 *Extricate Trapped Victim*

Spreaders  
Cutters  
Hand tools  
Spreaders  
Power Unit  
Stabilization Equipment  
Pneumatic Equipment  
Cribbing

## 6.5 Fire and Life Safety Initiatives, Prevention, Preparedness, and Maintenance

### 6.5.1 *Perform Safety Survey*

Department Dwelling Survey Form  
Area to survey

### 6.5.2 *Present Fire Safety Information*

Department Fire Prevention Program

6.5.3 *Preincident Survey*

Forms  
Drawing Equipment

6.5.4 *Maintain power plants*

Power plant  
Forms  
Cleaning rags

6.5.5 *Service Test Fire Hose*

Fire hose  
Pump  
Marking Service  
Pressure Gauges  
Timer  
Record Sheets  
Department Policy

## HAZARDOUS MATERIALS OPERATIONS SKILL TESTING EQUIPMENT LIST

### *Skill 1*

Local Emergency Response Plan  
Hazardous Material Scenario  
ERG  
AHJ Worksheet

### *Skill 2*

Hazardous Material Scenario  
AHJ Worksheet

### *Skill 3*

Hazardous Material Scenario  
AHJ Worksheet  
ICS 202 or other documents used by AHJ  
ICS 204 or other documents used by AHJ

### *Skill 4*

Water supply  
Hose/nozzles  
Victim to be decontaminated to be dressed in splash suit or firefighter turnouts or street clothing.  
PPE for responders:  
Fire Service - Minimum Firefighter Turnouts, SCBA.  
Police/EMS - Minimum Splash Suit, SCBA.

### *Skill 5*

Given equipment as determined by incident and qualified hazmat technician, 2-member team

### *Skill 6*

Water supply  
Hose/nozzles  
2-member team  
Responder dressed in appropriate level of protection to be decontaminated  
PPE as determined by incident and qualified hazmat technician  
Fire Service - Minimum Firefighter Turnouts, SCBA  
Police/EMS - Minimum Splash Suit, SCBA

### *Skill 7*

Self-Contained Breathing Apparatus

### *Skill 8*

Self-Contained Breathing Apparatus

### *Skill 9*

Self-Contained Breathing Apparatus

*Skill 10*

Hooded splash suit  
Boots  
Gloves  
Duct Tape  
Helmet  
SCBA

*Skill 11*

Firefighter Turnouts

*Skill 12*

Remote valve  
PPE: Fire Service - Minimum Firefighter Turnouts, SCBA  
Police/EMS – Minimum Splash Suit, SCBA.  
PPE donned before skill begins

*Skill 13*

Water supply  
Appliance  
100 ft. 2 1/2” hose (minimum)  
PPE: Fire Service - Minimum Firefighter Turnouts, SCBA  
Police/EMS - Minimum Splash Suit, SCBA  
PPE donned before skill begins

*Skill 14*

Water supply  
1 ¾ attack line (minimum)  
PPE: Fire Service - Minimum Firefighter Turnouts, SCBA  
Police/EMS - Minimum Splash Suit, SCBA  
PPE donned before skill begins

*Skill 15*

Simulated spill (36 sq. ft.)  
Foam application system (apparatus or foam extinguisher)  
PPE: Fire Service - Minimum Firefighter Turnouts, SCBA  
Police/EMS - Minimum Splash Suit, SCBA  
PPE donned before skill begins

*Skill 16*

Simulated moving spill  
Sand or dirt  
Shovels  
Plastic  
3-person team,  
PPE: Fire Service - Minimum Firefighter Turnouts, SCBA  
Police/EMS - Minimum Splash Suit, SCBA  
PPE donned before skill begins

*Skill 17*

Simulated spill

Sand or dirt

Shovels

Plastic

3-person team

PPE: Fire Service - Minimum Firefighter Turnouts, SCBA

Police/EMS - Minimum Splash Suit, SCBA.

PPE donned before skill begins

*Skill 18*

Simulated spill

Absorbent pad or other material

Shovels

PPE: Fire Service - Minimum Firefighter Turnouts, SCBA.

Police/EMS - Minimum Splash Suit, SCBA

PPE donned before skill begins