



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

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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