



**HMFRO  
NFPA 472, 2013 Edition  
Practical Skills Test**



CANDIDATE #

Station #: HMFRO-1

JPR: NFPA 472 4.1.2.2, 5.1.2.2

Emergency Response Guidebook		First Attempt		Second Attempt	
		Pass	Fail	Pass	Fail
1	Properly determined the UN number				
2	Located the material's name in the Yellow Section				
3	Identified the recommended ERG guide page				
4	Located and identified the fire/explosion hazard				
5	Determined the required Personal Protective Clothing				
6	Ascertained proper firefighting procedures				
7	Identified the evacuation distances if product is involved in fire				

<b>Evaluator Name:</b>	<b>Evaluator Signature:</b>	<b>PASS / FAIL</b> <i>(Circle one)</i>
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**HMFRO**  
**NFPA 472, 2013 Edition**  
**Practical Skills Test**



CANDIDATE #

Station #: HMFRO-1

**STATION:**

North American Emergency Response Guidebook

**OBJECTIVE:**

The candidate, given an Emergency Response Guidebook and a chemical placard will be able to determine hazards and appropriate initial actions.

**JPR:**

*NFPA 472 4.1.2.2, 5.1.2.2*

**EQUIPMENT:**

- 2016 Emergency Response Guidebook
- Chemical Placard(s)

**INSTRUCTIONS:**

The candidate will be given a current Emergency Response Guidebook, a placard and a questionnaire form and be asked to complete the questionnaire by referencing the Emergency Response Guidebook.

The time limit for this station is 30 minutes.

**COMMENTS:** (Reasons for any failure must be clearly documented here)



CANDIDATE #

Station #: HMFRO-1

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- 1.) **What is the Identification (ID) number on the placard provided?** \_\_\_\_\_
- 2.) **What is the name of the product shown?** \_\_\_\_\_
- 3.) **What Guide Number should be used for incidents involving this product?** \_\_\_\_\_
- 4.) **What are the fire and explosion hazards of this product?**
  
- 5.) **What is the recommended personal protective clothing for this product?**
  
- 6.) **What are the recommended firefighting procedures for this product?**
  
- 7.) **What are the recommended evacuation procedures if this product is involved in fire?**



# HMFRO

## NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-2

JPR: NPFA 472-2013 6.4.1 (3)(a)(b), 6.6.4.1(3)(g), 6.2.4.1(3), 6.2.5.1

Defensive Product Control- Adsorption, Absorption, Retention		First Attempt		Second Attempt	
		Pass	Fail	Pass	Fail
1	Establish control zones				
2	Consider wind direction and topography				
3	Selects appropriate adsorbent materials for the product				
4	Places absorption/adsorption materials without disturbing the spill				
<b>Retention</b>					
5	Selects appropriate retention material				
6	Constructs retention device with selected materials				
7	Stopped material from flowing into drain				
8	Tasks completed in a safe manner				

<b>Evaluator Name:</b>	<b>Evaluator Signature:</b>	<b>PASS / FAIL</b> <i>(Circle one)</i>
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HMFRO

NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-2

STATION:

Defensive Product Control- Absorption/Adsorption and Retention

OBJECTIVE:

The candidate, given appropriate tools, equipment and a simulated hazmat leak situation will demonstrate procedures for absorption /adsorption and Retention.

JPR:

NFPA 472-2013 6.4.1 (3)(a)(b), 6.6.4.1(3)(g), 6.2.4.1(3), 6.2.5.1

EQUIPMENT:

Adsorption, Absorption material
Retention material
Supplied by candidate:
Structural Firefighting PPE: Bunker Coat, Bunker Pants, Boots, Gloves, Hood, Helmet and SCBA.

INSTRUCTIONS:

Given a scenario, appropriate tools, and equipment while wearing appropriate PPE, the candidate will perform will demonstrate product control using an appropriate absorption/adsorption and retention.
The time limit for this station is 15 minute.

COMMENTS: (Reasons for any failure must be clearly documented here)



# HMFRO

## NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-3

JPR: NFPA 472-2013, 5.3.4 & 5.4.1(4)

Emergency Decontamination		First Attempt		Second Attempt	
		Pass	Fail	Pass	Fail
1	Enters simulated scene area wearing full PPE and SCBA				
2	Establishes contact with victim and communicates instructions verbally or with hand signals if victim is ambulatory.				
3	Establishes location for emergency decon site, considering environment conditions, such as wind and grade to minimize run off and further contamination.				
4	Deploys hose line set at low pressure and narrow fog pattern				
5	Minimizes contact with product, contaminated victim, and equipment				
6	Directs victim to remove clothing if ambulatory or removes clothing from non-ambulatory victim. (this can be verbalized if necessary)				
7	Performs emergency decon using water working from the head down. Flushing the groin, feet, and under arms.				
8	Directs or moves victim to holding area to await medical evaluation or further technical decon				
9	Reports or documents the incident and action taken (verbalize)				
10	Completes station in a safe manner				

<b>Evaluator Name:</b>	<b>Evaluator Signature:</b>	<b>PASS / FAIL</b> <i>(Circle one)</i>
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HMFRO

NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-3

STATION: Emergency Decontamination

OBJECTIVE: The candidate, given a complete set of PPE, SCBA, emergency decontamination equipment and a simulated victim exposed to a hazardous material, shall perform an emergency decontamination of such victim.

JPR: NFPA 472-2013, 5.3.4 & 5.4.1(4)

EQUIPMENT: Victim (mannequin), Stokes or backboard if using mannequin
Clothes for the victim (Multiple sets depending on number of candidates being tested)
EMS Scissors to cut clothes off mannequin, Plastic bags or garbage can for clothes to go into, Tarp if available, Source of water, hose, nozzle and other water delivery equipment (pumper, garden hose, etc.) and Timing device.
Supplied by candidate:
Structural Firefighting PPE: Bunker Coat, Bunker Pants, Boots, Gloves, Hood, and Helmet and SCBA

INSTRUCTIONS: The candidate will demonstrate their ability to perform emergency decontamination of a simulated victim. The candidate will be required to remove the victim's clothing, or verbalize removal of clothing, and wash the victim down with flooding quantities of water.
Because some actions are not readily apparent, the candidate will verbalize any actions that are not easily observed by the evaluator.
The time limit for this station is 15 minutes.

COMMENTS: (Reasons for any failure must be clearly documented here)



Station #: HMFRO-4

JPR: NFPA 472-2013, 6.6.4.1(3)(d)(f), 6.2.4.1(3), 6.2.5.1

Defensive Product Control Diversion and Diking		First Attempt		Second Attempt	
		Pass	Fail	Pass	Fail
1	Establishes control zone				
2	Considers wind direction and topography				
3	Selects and dons appropriate PPE				
4	<b>DIVERSION:</b>				
5	Selects appropriate diverting material				
6	Constructs diversion with selected material				
7	Diverts flowing material diverted to safe location				
8	Size and angle of diversion appropriate for material flow				
9	<b>Diking:</b>				
10	Selects appropriate diking material				
11	Constructs dike using selected material				
12	Selects appropriate diking material				
13	Constructs dike using selected material				
14	Selects an appropriate location for the dike				
15	Size of dike is appropriate for size of the flow				
16	Completes tasks in a safe manner				

<b>Evaluator Name:</b>	<b>Evaluator Signature:</b>	<b>PASS / FAIL</b> <i>(Circle one)</i>
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CANDIDATE #

Station #: HMFRO-4

STATION: Defensive Product Control Diversion and Diking

OBJECTIVE: The candidate given equipment, tools, and PPE, will control a simulated spill using diversion and diking.

JPR: NFPA 472-2013, 6.6.4.1(3)(d)(f), 6.2.4.1(3), 6.2.5.1

EQUIPMENT: Appropriate diversion/diking materials
Supplied by candidate:
Structural Firefighting PPE: Bunker Coat, Bunker Pants, Boots, Gloves, Hood, and Helmet and SCBA.

INSTRUCTIONS: Given a scenario, appropriate tools, and while wearing PPE, the candidate working as part of a team, will demonstrate proper control activities of diversion and diking. The candidate will first divert the flow of material to a safe location, then construct a dike to retain the flowing material.
The time limit for this station is 15 minutes.

COMMENTS: (Reasons for any failure must be clearly documented here)



# HMFRO

## NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-5

JPR: NFPA 472-2013, 6.6.4.1(3)(e), 6.2.4.1(3), 6.2.5.1

Defensive Product Control Dilution		First Attempt		Second Attempt	
		Pass	Fail	Pass	Fail
1	Establishes control zone				
2	Identifies appropriate PPE				
3	Identifies material as one that can be diluted				
4	Considers if spill can be effectively diluted				
5	Approached from uphill and up wind				
6	Dilutes with an adequate amount of water to reduce hazard				
7	Requests area to be tested for adequate reduction of hazard				
8	All tasks were completed in a safe manner				

<b>Evaluator Name:</b>	<b>Evaluator Signature:</b>	<b>PASS / FAIL</b> <i>(Circle one)</i>
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# HMFRO

## NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-5

**STATION:**

Defensive Product Control Dilution

**OBJECTIVE:**

Given tools, equipment and PPE the candidate will dilute a spill of simulated hazardous material.

**JPR:**

NFPA 472-2013, 6.6.4.1(3)(e), 6.2.4.1(3), 6.2.5.1

**EQUIPMENT:**

Pumper and pump operator  
Fire hose with nozzle  
  
Supplied by candidate:  
Structural Firefighting PPE: Bunker Coat, Bunker Pants, Boots, Gloves, Hood, Helmet and SCBA.

**INSTRUCTIONS:**

Given a scenario, appropriate tools and equipment, while wearing PPE and working as part of a team the candidate will demonstrate the proper control activities. The candidate will dilute a spill of simulated hazardous material.  
  
Because some actions are not readily apparent, the candidate will verbalize any actions that are not easily observed by the evaluator.

**COMMENTS:** (Reasons for any failure must be clearly documented here)



# HMFRO

## NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-6

JPR: NFPA 472-2013, 5.3.4 & 5.4.1(4)

Damming- Overflow/Underflow		First Attempt		Second Attempt	
		Pass	Fail	Pass	Fail
1	Establishes control zones				
2	Given a specific gravity if a product identifies appropriate dam to construct				
2	Selects and dons appropriate PPE				
3	Considers wind direction and topography				
4	Selects appropriate pipe diameter and length				
5	Constructs dam				
6	Evaluates adequate water flow through selected pipe				
7	Tasks completed in a safe manner.				

<b>Evaluator Name:</b>	<b>Evaluator Signature:</b>	<b>PASS / FAIL</b> <i>(Circle one)</i>
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# HMFRO

## NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-6

**STATION:**

Defensive Product Control Damming- Overflow/Underflow

**OBJECTIVE:**

Given equipment, tools, and PPE the candidate will construct an over flow or underflow dam.

**JPR:**

NFPA 472-2013 6.6.4.1(3)(c), 6.2.4.1(3), 6.2.5.1

**EQUIPMENT:**

Supplied by candidate:  
Structural Firefighting PPE: Bunker Coat, Bunker Pants, Boots, Gloves, Hood, and Helmet and SCBA.

**INSTRUCTIONS:**

Given a scenario, appropriate tools and equipment, while wearing PPE and working as part of a team the candidate will demonstrate their ability to construct a dam appropriate for the scenario.

**COMMENTS:** (Reasons for any failure must be clearly documented here)



# HMFRO

## NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-7

JPR: NFPA 472-2013, 6.6.4.1(3)(h)(i), 6.2.4.1(3), 6.2.5.1

Defensive Product Control Vapor Dispersion and Remote Shut Off		First Attempt		Second Attempt	
		Pass	Fail	Pass	Fail
1	Select a location to efficiently and safely perform the vapor dispersion operation.				
2	Advance the hoseline with fog pattern to disperse vapors.				
<b>Remote Shut Off</b>					
3	Identify and locate the emergency remote shutoff device.				
4	Operate the remote shutoff device.				
5	Team retreats and monitors for changes				
6	All tasks were complete in a safe manner				

<b>Evaluator Name:</b>	<b>Evaluator Signature:</b>	<b>PASS / FAIL</b> <i>(Circle one)</i>
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# HMFRO

## NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-7

**STATION:**

Defensive Product Control Vapor Dispersion and Remote Shut Off

**OBJECTIVE:**

The candidate, given appropriate tools, equipment and a simulated hazmat leak situation will be required to demonstrate defensive control activities. Candidates will demonstrate procedures for vapor dispersion, and remote shut off.

**JPR:**

NFPA 472-2013, 6.6.4.1(3)(h)(i), 6.2.4.1(3), 6.2.5.1

**EQUIPMENT:**

Pumper with operator, hose and nozzle  
Mockup of a remote valve to stop flow of product  
Timing device  
  
Supplied by candidate:  
Structural Firefighting PPE: Bunker Coat, Bunker Pants, Boots, Gloves, Hood, and Helmet and SCBA

**INSTRUCTIONS:**

The candidate will be evaluated on their ability to perform vapor dispersion and remote shut off. Each candidate will have the assistance of another candidate.  
  
Because some actions are not readily apparent, please verbalize any actions that are not easily observed by the evaluator.  
  
The time limit for this station is 15 minutes.

**COMMENTS:** (Reasons for any failure must be clearly documented here)



# HMFRO

## NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-8

JPR: NFPA 472-2013, 5.3.3 ,5.3.4

Mission Specific PPE		First Attempt		Second Attempt	
		Pass	Fail	Pass	Fail
1	Identifies appropriate PPE and respiratory protection for scenario				
2	Describes a capability of that PPE selected				
3	Describes a limitation of that PPE selected				
4	Describes a way to overcome the limitation stated				
5	Describe maintenance, testing, inspection, documentation, and storage of PPE				
6	Demonstrates ability to don PPE and respiratory protection				

<b>Evaluator Name:</b>	<b>Evaluator Signature:</b>	<b>PASS / FAIL</b> <i>(Circle one)</i>
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# HMFRO

## NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-8

**STATION:**

Mission Specific PPE

**OBJECTIVE:**

The operations level personnel assigned to use PPE and appropriate respiratory protection shall demonstrate the ability to don, work in, and doff equipment provided to support mission specific tasks.

**JPR:**

*NFPA 472-2013, 5.3.4 & 5.4.1(4)*

**EQUIPMENT:**

Mission Specific PPE  
  
Supplied by candidate:  
Appropriate respiratory protection

**INSTRUCTIONS:**

Given a scenario, the candidate will identify the appropriate PPE and respiratory protection required to mitigate the scenario. The candidate will describe capabilities and limitations of the selected PPE. The candidate will demonstrate their ability to use selected PPE and respiratory protection. The candidate will then describe maintenance testing, inspection, storage and documentation of PPE and respirator.

**COMMENTS:** (Reasons for any failure must be clearly documented here)



CANDIDATE #

Station #: HMFRO-9

JPR: NFPA 472-2013, 6.6.4.1

Table with 6 columns: Skill ID, Skill Description, First Attempt Pass, First Attempt Fail, Second Attempt Pass, Second Attempt Fail. Rows include 'Proper Application of Foam' header, Method 1 (Roll on method), Method 2 (Bank-Down method), and Method 3 (Rain down method) with 15 numbered items.

Evaluator Name: Evaluator Signature: PASS / FAIL (Circle one)



# HMFRO

## NFPA 472, 2013 Edition Practical Skills Test



CANDIDATE #

Station #: HMFRO-9

**STATION:**

Proper Application of Foam

**OBJECTIVE:**

The candidate, using special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam or agent on a spill or fire involving hazardous material/WMD.

**JPR:**

*NFPA 472-2013, 6.6.4.1*

**EQUIPMENT:**

Engine and pump operator  
Foam educator and compatible GPM nozzle  
Foam Concentrate  
200 feet 1 ¼ fire hose  
Area to test foam application methods  
Timing device  
Supplied by candidate:  
Structural Firefighting PPE: Bunker Coat, Bunker Pants, Boots, Gloves, Hood, and Helmet and SCBA

**INSTRUCTIONS:**

Candidate will be given firefighting foam or vapor suppressing agents, a fire department pumper and foam application equipment, and a simulated hazardous materials fire, or spill. The candidate will operate as a member of a team to demonstrate proper application of foam. The candidate will apply the foam using all three methods listed below.

Roll On Method – Apply foam to front edge of spill and let foam spread across entire surface  
Bank Down Method - Apply foam to object above or behind spill and allow foam to run down object onto surface of spill until foam spreads across entire surface  
Rain Down Method – Apply foam into air above spill and allow foam to “rain” down onto surface of spill until foam spreads across entire surface

The time limit for this station is 15 minutes.

**COMMENTS:** (Reasons for any failure must be clearly documented here)