



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Core Competencies

7.2 Identify Potential Hazards

JPR-HMO #1

7.2.1 Identify Likely Outcomes for a Hazmat Scenario

Created: December 19, 2023

Analyze a Hazmat Scenario at a Facility to Identify Likely Outcomes

Candidate: _____

Date: _____

Student#: _____

STANDARD: 7.2.1 NFPA 470 2022 Edition		TASK: Analyze a hazardous materials scenario at a facility to identify potential hazards.			
PERFORMANCE OUTCOME: The candidate will analyze a hazardous materials scenario to identify potential hazards. The candidate must pass a minimum of 6 out of 8 steps including any Must Pass items to successfully complete this skill.					
EQUIPMENT REQUIRED:					
<ul style="list-style-type: none"> • Radio • ERG. 		<ul style="list-style-type: none"> • Structural Firefighting PPE • SCBA 		<ul style="list-style-type: none"> • Binoculars 	
CONDITIONS: Given a hazardous materials scenario at a facility, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify type of facility and type(s) of container(s).				
2.	Identify material(s) involved.				
3.	Meet with facilities representatives/safety manager to determine location of incident and access.				
4.	Identify the conditions surrounding the incident.				
5.	Communicate with facility representatives to identify type of release, spill or leak.				
6.	Collect and determine hazard information using approved reference sources.				
7.	Describe any potential behavior of material and containers.				
8.	Describe potential hazards, harm, and outcomes based on potential behavior. MUST PASS				

First Test:

Total points needed to pass: 6 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 6 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____



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Candidate

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Core Competencies

7.2 Identify Potential Hazards

JPR-HMO #2

7.2.1 Identify Likely Outcomes at a Hazmat Scenario

Created: December 19, 2023

Analyze a Transportation Hazmat Scenario to Identify Likely Outcomes

Candidate: _____

Date: _____

Student#: _____

STANDARD: 7.2.1 NFPA 470, 2022 Edition		TASK: Analyze a transportation hazardous materials scenario to identify potential hazards.			
PERFORMANCE OUTCOME: The candidate will analyze a hazardous materials scenario to identify potential hazards. The candidate must pass a minimum of 6 out of 8 steps , including any Must Pass items to successfully complete this skill.					
EQUIPMENT REQUIRED:					
<ul style="list-style-type: none"> • Radio • ERG. 		<ul style="list-style-type: none"> • Structural Firefighting PPE • SCBA 		<ul style="list-style-type: none"> • Binoculars 	
CONDITIONS: Given a hazardous materials scenario, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify type(s) of container(s).				
2.	Collect and determine product/hazard information using approved reference sources.				
3.	Identify the type of release, spill or leak.				
4.	Identify location of release and ensure that you are uphill, upwind and upstream as appropriate. MUST PASS				
5.	Identify the conditions surrounding the hazardous materials/WMD incident.				
6.	Communicate with applicable operators or representatives.				
7.	Describe any potential behavior of material and containers.				
8.	Describe potential hazards, harm and likely outcomes based on potential behavior. MUST PASS				

First Test:

Total points needed to pass: 6 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 6 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____



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Core Competencies

7.2 Identify Potential Hazards

JPR-HMO #3

7.2.1 Communicate and Obtain Relevant Information During a Hazmat Incident

Created: December 19, 2023

Communicate with Pipeline Operators or Carrier Representatives During a Hazmat Incident

Candidate: _____

Date: _____

Student#: _____

STANDARD: 7.2.1 NFPA 470, 2022 Edition	TASK: Communicate with pipeline operators or carrier representatives during a hazardous materials incident.				
PERFORMANCE OUTCOME: The candidate will communicate with pipeline operators or carrier representatives and obtain relevant information pertaining to the hazmat incident. The candidate must pass all steps including any Must Pass items to successfully complete this skill.					
EQUIPMENT REQUIRED: <ul style="list-style-type: none">• Radio• Binoculars• Structural Firefighting PPE• SCBA					
CONDITIONS: Given a hazardous materials scenario at a pipeline incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify pipeline incident.				
2.	Determine where to find contact information .				
3.	Identify pipeline operator or carrier representative.				
4.	Communicate with pipeline operator or carrier representative, relaying appropriate information and obtaining relevant information. MUST PASS				
5.	Identify the conditions surrounding the incident.				
6.	Relay appropriate information to Incident Command. MUST PASS				

First Test:

Total points needed to pass: 6 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 6 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

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Core Competencies

7.3 Identify Tactics

JPR-HMO #4

7.3.1 Identify Strategies and Tactics

Created: December 19, 2023

Identify Strategies and Tactics at a Hazardous Materials/ WMD Incident

Candidate: _____

Date: _____

Student#: _____

STANDARD: 7.3.1 NFPA 470, 2022 Edition	TASK: Identify the strategies and tactics for a hazardous materials/ WMD scenario.				
PERFORMANCE OUTCOME: The candidate will identify the actions for a hazmat incident given a hazardous materials scenario. The candidate must pass a minimum of 4 out of 5 steps including any Must Pass items to successfully complete this skill.					
EQUIPMENT REQUIRED:					
<ul style="list-style-type: none"> Radio ERG 	<ul style="list-style-type: none"> Structural Firefighting PPE & SCBA Firefighting Apparatus 				
CONDITIONS: Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Complete incident size-up				
2.	Identify strategies and tactics based on the scope of the incident and available resources.				
3.	Identify tactics options based on the scope of the incident and available resources.				
4.	Identify safety precautions for the incident, including emergency decon needs. MUST PASS				
5.	Determine if available PPE is suitable for incident conditions.				

First Test:

Total points needed to pass: 4 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 4 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

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Core Competencies

7.4, 7.6 Action Plan Implementation

7.4.1, 7.6.1 Establish and Maintain Scene Control

JPR- HMO #5

Created: December 19, 2023

Provide Scene Control at a Hazmat/WMD Incident

Candidate: _____

Date: _____

Student#: _____

STANDARD: 7.4.1, 7.6.1 NFPA 470, 2022 Edition		TASK: Provide scene control and evaluate progress of a hazmat incident given a hazardous materials scenario.			
PERFORMANCE OUTCOME: The candidate will provide scene control and evaluate progress of a hazmat incident given a hazardous materials scenario. The candidate must pass a minimum of 12 out of 16 steps , including any Must Pass items to successfully complete this skill.					
EQUIPMENT REQUIRED:					
<ul style="list-style-type: none"> • Radio • ERG • Cones 		<ul style="list-style-type: none"> • Structural Firefighting PPE & SCBA • Firefighting Apparatus • Pen and Paper 			
CONDITIONS: Given a hazardous material incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Complete incident size-up.				
2.	Take protective actions.				
3.	Establish an incident management system.				
4.	Develop and implement an Incident Action Plan. MUST PASS				
5.	Establish and ensure scene control. MUST PASS				
6.	Select and use personal protective equipment.				
7.	Protect exposures and personnel				
8.	Ensure safety procedures are followed. MUST PASS				
9.	Minimize or avoid hazards.				
10.	Identify potential evidence.				
11.	Preserve potential evidence.				
12.	Determine incident status.				
13.	Determine if action objectives are being met.				
14.	Evaluate the effectiveness of assigned tasks. MUST PASS				
15.	Communicate progress using approved communications tools.				
16.	Complete assignments.				

First Test:

Total points needed to pass: 11 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 11 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____



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Core Competencies

7.6 Action Plan Implementation

JPR-HMO #6

7.6.1 Establish and Maintain Scene Control

Created: December 19, 2023

Evaluate Progress at a Hazardous Materials Incident

Candidate: _____

Date: _____

Student#: _____

STANDARD: 7.6.1 NFPA 470, 2022 Edition		TASK: Evaluate progress at a hazardous materials incident.			
PERFORMANCE OUTCOME: The candidate will evaluate progress at a hazardous materials incident. The candidate must complete all steps , including any steps marked MUST PASS to successfully complete this skill.					
EQUIPMENT REQUIRED:					
<ul style="list-style-type: none">• Radio• ERG• Cones		<ul style="list-style-type: none">• Structural Firefighting PPE & SCBA• Firefighting Apparatus• Pen and Paper			
CONDITIONS: Given a hazardous material incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine incident status.				
2.	Review IAP (Incident Action Plan).				
3.	Evaluate effectiveness of assigned tasks.				
4.	Determine if incident objectives are being met.				
5.	Communicate status of assigned tasks to supervisor using approved communication tools and equipment. MUST PASS				

First Test:

Total points needed to pass: 5 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 5 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

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Core Competencies

7.5 Emergency Decontamination

7.4.1, 7.5.1

JPR- HMO #7
Created: December 19, 2023

Perform Decontamination Procedures

Candidate: _____

Date: _____

Student#: _____

STANDARD: 7.4.1, 7.5.1 NFPA 470, 2022 Edition	TASK: Perform decontamination procedures.				
PERFORMANCE OUTCOME: The candidate will go through decontamination procedures while wearing and doffing approved PPE. The candidate must score a minimum of 5 out of 7 steps , including any steps marked MUST PASS to successfully complete this skill.					
EQUIPMENT REQUIRED: <ul style="list-style-type: none"> <li style="width: 50%;">• Radio <li style="width: 50%;">• PPE & SCBA <li style="width: 50%;">• ERG <li style="width: 50%;">• Decontamination equipment <li style="width: 50%;">• Pylons <li style="width: 50%;">• Firefighting apparatus 					
CONDITIONS: Given a hazardous material incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Advance to the decontamination line.				
2.	Isolate contaminated tools and equipment in designated area for decontamination.				
3.	Use a low-pressure water spray for a gross wash. MUST PASS				
4.	Doff PPE while continuing to breathe air from SCBA. <ul style="list-style-type: none"> a) Remove helmet and hood (slide hood over face mask to airline). b) Remove turnout coat and gloves. c) Roll turnout pants down with clean side out and step out of boots. d) Remove SCBA facepiece, shut off the cylinder valve and disarm PASS. NOTE: A helper may be used to doff PPE. MUST PASS				
5.	Wash, using soap and water or disposable towels to clean the head, neck, hands and wrists before moving to the rehab area.				
6.	Ensure appropriate disposal or decontamination of PPE.				
7.	Complete required reports and supporting documentation as per SOPs.				

First Test:

Total points needed to pass: 5 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 5 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____



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Core Competencies

7.5 Emergency Decontamination

7.4.1, 7.5.1

JPR- HMO #8
Created: December 19, 2023

Perform Emergency Decontamination

Candidate: _____

Date: _____

Student#: _____

STANDARD: 7.4.1, 7.5.1 NFPA 470, 2022 Edition		TASK: Perform emergency decontamination procedures.			
PERFORMANCE OUTCOME: The candidate will perform emergency decontamination on contaminated personnel, tools, equipment and PPE in the field. The candidate must score a minimum of 18 out of 22 steps , including any steps marked MUST PASS to successfully complete this skill.					
EQUIPMENT REQUIRED:					
<ul style="list-style-type: none"> • Radio • ERG • Hoselines 		<ul style="list-style-type: none"> • PPE & SCBA • Decontamination equipment • Firefighting apparatus 		<ul style="list-style-type: none"> • Water supply • Pylons • Brushes 	
CONDITIONS: Given a hazardous materials/WMD incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Analyze the incident and determine that emergency decontamination is required.				
2.	Select an appropriate decontamination method. MUST PASS				
3.	Ensure that all responders involved in decontamination operations are wearing appropriate PPE for performing emergency decontamination. MUST PASS				
4.	Ensure emergency decontamination is set up in a safe area.				
For contaminated personnel:					
5.	Instruct contaminated personnel to advance to the emergency decontamination area.				
6.	Perform a gross wash.				
7.	Instruct personnel to remove PPE/clothing, minimizing the spread of contaminants.				
8.	Keep track of personal belongings using approved SOPs.				
9.	Instruct personnel to perform a quick head-to-toe rinse, wash and rinse.				
10.	Evaluate the effectiveness of decontamination using appropriate monitoring/detection method(s). If contamination is detected, personnel must be redirected through the decon process. MUST PASS				
11.	Instruct personnel to dry off and provide them with appropriate garment.				
12.	Send personnel for assessment, first aid and medical treatment.				
13.	Ensure personnel or hospital/ambulance personnel are informed of the contaminant from appropriate resources. MUST PASS				
14.	Complete assigned duties and appropriate documentation.				
For contaminated tools, equipment and PPE:					
15.	Identify which tools, equipment and PPE require decontamination and which require disposal.				
16.	Appropriately package and label any tools, equipment or PPE that require disposal.				
17.	Perform emergency decontamination on tools, equipment and PPE.				



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18.	Evaluate the effectiveness of decontamination using appropriate monitoring/detection method(s). If contamination is detected, tools, equipment and/or PPE must be put through the decon process again. MUST PASS				
19.	Inspect tools, equipment and PPE to ensure that they are ready to return to service.				
20.	Appropriately tag any items that require additional care before they can be returned to service.				
21.	Return items to service as per SOPs.				
22.	Complete required reports and supporting documentation as per SOPs.				

First Test:

Total points needed to pass: 18 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 18 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

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Date

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HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Core Competencies & Mission Specific

9.2.1 Personal Protective Equipment

JPR- HMO #9
Created: December 19, 2023

Don, Work in and Doff Structural Firefighting Personal Protective Equipment

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9 . 2 . 1 NFPA 470, 2022 Edition	TASK: Don, work in and doff structural firefighting personal protective equipment.				
PERFORMANCE OUTCOME: The candidate will don, work in, and doff structural firefighting personal protective equipment, given a hazardous materials scenario. The candidate must score 100 % to successfully complete this skill.					
EQUIPMENT REQUIRED: <ul style="list-style-type: none"> <li style="width: 50%;">• Radio <li style="width: 50%;">• Structural Firefighting PPE & SCBA <li style="width: 50%;">• ERG <li style="width: 50%;">• Firefighting Apparatus <li style="width: 50%;">• Decontamination Equipment 					
CONDITIONS: Given a hazardous material incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine hazards.				
2.	Select appropriate PPE ensemble based on the hazards.				
3.	Perform a visual inspection of PPE and SCBA for damage or defects.				
4.	Don protective trousers and boots.				
5.	Don protective hood.				
6.	Don protective coat.				
7.	Don SCBA. a. Ensure cylinder is full (within 90 %) b. Ensure valve is fully open c. Listen for low air alarm d. Listen for PASS device e. Ensure remote gauge matches cylinder gauge (within 100 psi)				
8.	Don SCBA facepiece and ensure proper fit and seal.				
9.	Pull hood up so that facepiece straps and skin are not exposed.				
10.	Don helmet and secure.				
11.	Don gloves.				
12.	Ensure all fasteners, straps, buckles etc are fastened.				
13.	Ensure no skin is exposed.				
14.	Attach SCBA regulator to facepiece and make sure SCBA is functioning normally.				
15.	Perform pre-entry checks according to SOPs				
16.	Perform work assignment.				
17.	Undergo decontamination per SOPs.				



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18.	Doff PPE in reverse order according to SOPs, avoiding contact with outer ensemble or surfaces that may be contaminated.				
19.	Conduct a post-entry inspection of PPE for damage or defects according to SOPs and document findings.				

First Test:

Total points needed to pass: 19 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 19 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

	Date		Date
<small>Evaluator (Print & Sign)</small>		<small>Candidate</small>	

	Date		Date
<small>Re-Test Evaluator</small>		<small>Re-Test Candidate</small>	

Proctor/Candidate Comments:



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Core Competencies & Mission Specific

9.2.1 Personal Protective Equipment

JPR- HMO #10
Created: December 19, 2023

Don, Work in and Doff a Vapor Protection (Class 1) Ensemble

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9 . 2 . 1 NFPA 470, 2022 Edition	TASK: Don, work in and doff a vapor protection (Class 1) ensemble.				
PERFORMANCE OUTCOME: The candidate will don, work in, and doff vapor protection (class 1) ensemble, given a hazardous materials scenario. The candidate must score 100 % to successfully complete this skill. NOTE: Assistance is to be provided by crew members to the person donning the ensemble.					
EQUIPMENT REQUIRED: <ul style="list-style-type: none"> <li style="width: 50%;">• Radio <li style="width: 50%;">• Vapor protection ensemble <li style="width: 50%;">• ERG <li style="width: 50%;">• SCBA <li style="width: 50%;">• Decontamination Equipment <li style="width: 50%;">• Firefighting apparatus 					
CONDITIONS: Given a hazardous material incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine hazards.				
2.	Select appropriate PPE ensemble based on the hazards.				
3.	Perform a visual inspection of PPE and SCBA for damage or defects.				
4.	Perform pre-entry medical monitoring as per SOPs.				
5.	Don vapor protective clothing to the waist.				
6.	Don work boots.				
7.	Don SCBA. a. Ensure cylinder is full (within 90 %) b. Ensure valve is fully open c. Listen for low air alarm d. Listen and inspect PASS device e. Ensure remote gauge matches cylinder gauge (within 100 psi)				
8.	Don SCBA facepiece and ensure proper fit and seal.				
9.	Don protective headgear as per SOPs.				
10.	Don remainder of vapor protecting clothing and secure all closures.				
11.	Don regulator.				
12.	Breathe through regulator and ensure that SCBA is functioning properly.				
13.	Perform pre-entry checks as per SOPs.				
14.	Perform work assignment.				
15.	Undergo decontamination as per SOPs.				
16.	Doff ensemble in reverse order as donning, avoiding contact with outer ensemble or surfaces that may be contaminated.				
17.	Perform post-entry medical monitoring as per SOPs.				



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18.	Conduct a post-entry inspection of PPE for damage or defects according to SOPS and document findings.				
19.	Return to proper storage as per manufacturer's recommendations.				

First Test:

Total points needed to pass: 19 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 19 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

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Core Competencies & Mission Specific

9.2.1 Personal Protective Equipment

JPR- HMO #11
Created: December 19, 2023

Don, Work in and Doff a Liquid Splash Protection (Class 2) Ensemble

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9 . 2 . 1 NFPA 470, 2022 Edition		TASK: Don, work in and doff a liquid splash protection (Class 2) ensemble.			
PERFORMANCE OUTCOME: The candidate will don, work in, and doff liquid splash protection (class 2) ensemble, given a hazardous materials scenario. The candidate must score 100 % to successfully complete this skill.					
NOTE: Assistance is to be provided by crew members to the person donning the ensemble.					
EQUIPMENT REQUIRED:					
<ul style="list-style-type: none"> • Radio • ERG • Decontamination Equipment 		<ul style="list-style-type: none"> • Liquid splash protection ensemble • SCBA • Firefighting apparatus 			
CONDITIONS: Given a hazardous material incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine hazards.				
2.	Select appropriate PPE ensemble based on the hazards.				
3.	Perform a visual inspection of PPE and SCBA for damage or defects.				
4.	Perform pre-entry medical monitoring as per SOPs.				
5.	Don liquid splash protective ensemble to the waist.				
6.	Don work boots.				
7.	Don SCBA. <ul style="list-style-type: none"> a. Ensure cylinder is full (within 90 %) b. Ensure valve is fully open c. Listen for low air alarm d. Listen and inspect PASS device e. Ensure remote gauge matches cylinder gauge (within 100 psi) 				
8.	Don SCBA facepiece and ensure proper fit and seal.				
9.	Don sleeves of liquid splash PPE.				
10.	Don gloves.				
11.	Pull ensemble sleeves over the outside of the gloves. NOTE: Tape wrists and gaps if required by SOPs.				
12.	Don remainder of liquid splash PPE and secure all closures.				
13.	Attach SCBA regulator to facepiece and ensure proper operation..				
14.	Perform pre-entry checks as per SOPs.				
15.	Perform work assignment.				
16.	Undergo decontamination as per SOPs.				



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17.	Doff ensemble in reverse order of donning, avoiding contact with outer ensemble or surfaces that may be contaminated.				
18.	Ensure medical monitoring is performed as per SOPs.				
19.	Conduct a post-entry inspection of PPE for damage or defects according to SOPs and document findings.				
20.	Return to proper storage as per manufacturer's recommendations.				

First Test:

Total points needed to pass: 20 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 20 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

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Core Competencies & Mission Specific

9.2.1 Personal Protective Equipment

JPR- HMO #12
Created: December 19, 2023

Don, Work in and Doff an Airborne/ Particulate Protection (Class 3, Level C) Ensemble

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9 . 2 . 1 NFPA 470, 2022 Edition	TASK: Don, work in and doff an airborne/ particulate protection (Class 3, Level C) ensemble.				
PERFORMANCE OUTCOME: The candidate will don, work in and doff an airborne/ particulate protection (Class 3, Level C) ensemble, given a hazardous materials scenario. The candidate must score 100 % to successfully complete this skill.					
NOTE: Assistance is to be provided by crew members to the person donning the ensemble.					
EQUIPMENT REQUIRED: <ul style="list-style-type: none"> <li style="width: 50%;">• Radio <li style="width: 50%;">• Airborne/particulate (Class 3, Level C) ensemble <li style="width: 50%;">• ERG <li style="width: 50%;">• APR/PAPR <li style="width: 50%;">• Decontamination Equipment <li style="width: 50%;">• Firefighting apparatus 					
CONDITIONS: Given a hazardous material incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine hazards.				
2.	Select appropriate PPE ensemble based on the hazards.				
3.	Perform a visual inspection of PPE and respirator for damage or defects.				
4.	Don airborne/particulate PPE and secure closures.				
5.	Don work boots.				
6.	Pull ensemble leg openings over the top of the work boots.				
7.	Don respirator.				
8.	Pull ensemble hood up completely so that facepiece straps and skin are not exposed.				
9.	Don gloves.				
10.	Pull ensemble sleeves over the outside of the gloves. NOTE: Tape wrists and gaps if required by SOPs.				
11.	Breathe through respirator and ensure that respirator is functioning properly.				
12.	Don protective headgear as per SOPs.				
13.	Perform pre-entry checks as per SOPs.				
14.	Perform work assignment.				
15.	Undergo decontamination as per SOPs.				
16.	Doff ensemble according to SOPs, avoiding contact with outer ensemble or surfaces that may be contaminated.				
17.	Doff respirator.				
18.	Conduct a post-entry inspection of PPE for damage or defects according to SOPs and document findings.				
19.	Return to proper storage as per manufacturer's recommendations.				



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

First Test:

Total points needed to pass: 19 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 19 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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Proctor/Candidate Comments:



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Core Competencies & Mission Specific

9.2.1 Personal Protective Equipment

JPR- HMO #13
Created: December 19, 2023

Don, Work in and Doff a Biological Agent/Particulate (Class 4) Ensemble

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9.2.1 NFPA 470, 2022 Edition	TASK: Don, work in and doff a biological agent/particulate (Class 4) ensemble.				
PERFORMANCE OUTCOME: The candidate will don, work in and doff a biological agent/particulate (Class 4) ensemble, given a hazardous materials scenario. The candidate must score 100 % to successfully complete this skill.					
NOTE: Assistance is to be provided by crew members to the person donning the ensemble.					
EQUIPMENT REQUIRED: <ul style="list-style-type: none"> <li style="width: 50%;">• Radio <li style="width: 50%;">• Biological agent/particulate (Class 4) ensemble <li style="width: 50%;">• ERG <li style="width: 50%;">• APR/PAPR <li style="width: 50%;">• Decontamination Equipment <li style="width: 50%;">• Firefighting apparatus 					
CONDITIONS: Given a hazardous material incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine hazards.				
2.	Select appropriate PPE ensemble based on the hazards.				
3.	Perform a visual inspection of PPE and respirator for damage or defects.				
4.	Don airborne/particulate PPE and secure closures.				
5.	Don work boots.				
6.	Pull ensemble leg openings over the top of the work boots.				
7.	Don respirator.				
8.	Pull ensemble hood up completely so that facepiece straps and skin are not exposed.				
9.	Don gloves. NOTE: Multiple layers of gloves may be used.				
10.	Perform pre-entry checks as per SOPs.				
11.	Perform work assignment.				
12.	Undergo decontamination as per SOPs.				
13.	Doff ensemble according to SOPs, avoiding contact with outer ensemble or surfaces that may be contaminated.				
14.	Doff respirator.				
15.	Dispose of garments per AHJ requirements.				
16.	Undergo post-exposure monitoring and surveillance.				



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

First Test:

Total points needed to pass: 16 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 16 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Evaluator	Date	Re-Test Candidate	Date

Proctor/Candidate Comments:



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Mission Specific

9.6 Product Control

JPR-HMO #28

9.6.1 Perform Remote Valve Shutoff

Created: December 19, 2023

Perform a Remote Valve Shutoff or Activate an Emergency Shutoff Device

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9.6.1 NFPA 470, 2022 Edition		TASK: Perform an emergency valve shutoff or activate emergency shutoff device.			
PERFORMANCE OUTCOME: The candidate will perform a remote valve shutoff or activate an emergency shutoff device. The candidate must score a minimum 5 out of 7 steps , including any steps marked MUST PASS , to successfully complete this skill.					
EQUIPMENT REQUIRED:					
<ul style="list-style-type: none"> • Radio • ERG. • Shovels/rakes 		<ul style="list-style-type: none"> • Structural Firefighting PPE • SCBA • Water supply 		<ul style="list-style-type: none"> • Binoculars • Hoseline • dirt/sand/gravel 	
CONDITIONS: Given a hazardous materials release, spill or leak, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select the appropriate product control technique to confine/contain the release. MUST PASS				
2.	Ensure that all responders involved in the control function are wearing the appropriate PPE for performing remote valve shutoff operations. MUST PASS				
3.	Identify and locate the emergency remote control valve and/or emergency shutoff device.				
4.	Operate the remote valve and/or emergency shutoff device properly. MUST PASS				
5.	If necessary, decontaminate tools and advance to decontamination line for decontamination.				
6.	Communicate completed operation to Incident Commander.				
7.	Complete required reports and supporting documentation.				

First Test:

Total points needed to pass: 5 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 5 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

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Date

Re-Test Evaluator

Date

Re-Test Candidate

Date

Proctor/Candidate Comments:



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Mission Specific

9.6 Product Control

JPR-HMO #29

9.6.1 Perform Absorption/ Adsorption

Created: December 19, 2023

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9.6.1 NFPA 470, 2022 Edition		TASK: Using the appropriate tools and equipment, the candidate shall demonstrate how to control a hazardous material using absorption/adsorption. Proctor Note: Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.			
PERFORMANCE OUTCOME: The candidate will use the appropriate tools and equipment to control a hazardous material spill using absorption/adsorption. The candidate must score a minimum of 7 out of 10 steps , including all MUST PASS items, to successfully complete this skill.					
EQUIPMENT REQUIRED: <ul style="list-style-type: none"> • Radios • ERG. • Absorbent/ adsorbent materials • PPE • SCBA • Shovels/rakes • pylons • Hoseline • Containers 					
CONDITIONS: Given a hazardous materials release, spill or leak, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select the appropriate product control technique to confine/contain the release. MUST PASS				
2.	Ensure that all responders involved in the control function are wearing the appropriate PPE for performing absorption/adsorption operations and that appropriate hand tools have been selected. MUST PASS				
3.	Select a location to efficiently and safely perform the absorption/adsorption operation. MUST PASS				
4.	Select the most appropriate sorbent or adsorbent.				
5.	Deploy the sorbent/adsorbent in a manner that most efficiently controls the spill. MUST PASS				
6.	Upon mitigation of the incident, place any contaminated material, such as clothing, in a approved container for transportation to a disposal location.				
7.	Seal and label container and document appropriate information for department records.				
8.	Decontaminate tools.				
9.	Advance to decontamination line for decontamination.				
10.	Complete required reports and supporting documentation.				



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

First Test:

Total points needed to pass: 7 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 7 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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Proctor/Candidate Comments:



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Mission Specific

9.6 Product Control

9.6.1 Perform Damming

JPR-HMO #30

Created: December 19, 2023

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9.6.1 NFPA 470 2022 Edition	TASK: Using the appropriate tools and equipment, the candidate shall demonstrate how to control a hazardous material using damming.				
	Proctor Note: Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
PERFORMANCE OUTCOME: The candidate will use the appropriate tools and equipment to control a hazardous material spill using damming. The candidate must score a minimum of 7 out of 9 steps , including all MUST PASS items, to successfully complete this skill.					
EQUIPMENT REQUIRED:					
<ul style="list-style-type: none"> • Radios • ERG. • Plastic sheeting • PPE • SCBA • Shovels/rakes • pylons • Hoseline • Containers 					
CONDITIONS: Given a hazardous materials release, spill or leak, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select the appropriate product control technique to confine/contain the release. MUST PASS				
2.	Ensure that all responders involved in the control function are wearing the appropriate PPE for performing damming operations and that appropriate hand tools have been selected. MUST PASS				
3.	Select a location to efficiently and safely perform the damming operation. MUST PASS				
4.	Construct the dam in a location and manner that most efficiently controls the spill. MUST PASS				
5.	Upon mitigation of the incident, place any contaminated material, such as clothing, in a approved container for transportation to a disposal location.				
6.	Seal and label container and document appropriate information for department records.				
7.	Decontaminate tools.				
8.	Advance to decontamination line for decontamination.				
9.	Complete required reports and supporting documentation.				

First Test:

Total points needed to pass: 7 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 7 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

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Proctor/Candidate Comments:



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Mission Specific
9.6 Product Control
9.6.1 Perform Diking

JPR-HMO #31

Created: December 19, 2023

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9.6.1 NFPA 470, 2022 Edition	TASK: Using the appropriate tools and equipment, the candidate shall demonstrate how to control a hazardous material using diking. Proctor Note: Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.
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PERFORMANCE OUTCOME: The candidate will use the appropriate tools and equipment to control a hazardous material spill using diking. The candidate must score a **minimum of 7 out of 9 steps**, including all **MUST PASS** items, to successfully complete this skill.

EQUIPMENT REQUIRED:		
<ul style="list-style-type: none"> • Radios • ERG. • Plastic sheeting 	<ul style="list-style-type: none"> • PPE • SCBA • Shovels/rakes 	<ul style="list-style-type: none"> • pylons • Hoseline • Containers

CONDITIONS: Given a hazardous materials release, spill or leak, the candidate shall demonstrate the ability to:

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select the appropriate product control technique to confine/contain the release. MUST PASS				
2.	Ensure that all responders involved in the control function are wearing the appropriate PPE for performing diking operations and that appropriate hand tools have been selected. MUST PASS				
3.	Select a location to efficiently and safely perform the diking operation. MUST PASS				
4.	Construct the dike in a location and manner that most efficiently controls the spill. MUST PASS				
5.	Upon mitigation of the incident, place any contaminated material, such as clothing, in a approved container for transportation to a disposal location.				
6.	Seal and label container and document appropriate information for department records.				
7.	Decontaminate tools.				
8.	Advance to decontamination line for decontamination.				
9.	Complete required reports and supporting documentation.				

First Test:

Total points needed to pass: 7 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 7 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____



HAZARDOUS MATERIALS OPERATIONS

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Proctor/Candidate Comments:



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Mission Specific
9.6 Product Control
9.6.1 Perform Diversion

JPR-HMO #32

Created: December 19, 2023

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9.6.1 NFPA 470, 2022 Edition	TASK: Using the appropriate tools and equipment, the candidate shall demonstrate how to control a hazardous material using diversion. Proctor Note: Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.
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PERFORMANCE OUTCOME: The candidate will use the appropriate tools and equipment to control a hazardous material spill using diversion. The candidate must score a **minimum of 7 out of 10 steps**, including all **MUST PASS** items, to successfully complete this skill.

EQUIPMENT REQUIRED:		
<ul style="list-style-type: none"> • Radios • ERG. • Plastic sheeting 	<ul style="list-style-type: none"> • PPE • SCBA • Shovels/rakes 	<ul style="list-style-type: none"> • pylons • Hoseline • Containers

CONDITIONS: Given a hazardous materials release, spill or leak, the candidate shall demonstrate the ability to:

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select the appropriate product control technique to confine/contain the release. MUST PASS				
2.	Ensure that all responders involved in the control function are wearing the appropriate PPE for performing diversion operations and that appropriate hand tools have been selected. MUST PASS				
3.	Select a location to efficiently and safely perform the diversion operation. MUST PASS				
4.	Construct the diversion in a location and manner that most efficiently controls the spill and directs the spill to a desired location. MUST PASS				
5.	Working as a team, use hand tools to break the soil, remove soil, pile the soil and pack the soil tightly.				
6.	Upon mitigation of the incident, place any contaminated material, such as clothing, in a approved container for transportation to a disposal location.				
7.	Seal and label container and document appropriate information for department records.				
8.	Decontaminate tools.				
9.	Advance to decontamination line for decontamination.				
10.	Complete required reports and supporting documentation.				



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

First Test:

Total points needed to pass: 7 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 7 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

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Re-Test Evaluator	Date	Re-Test Candidate	Date
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Proctor/Candidate Comments:



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Mission Specific

9.6 Product Control

9.6.1 Perform Retention

JPR-HMO #33

Created: December 19, 2023

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9.6.1 NFPA 470, 2022 Edition		TASK: Using the appropriate tools and equipment, the candidate shall demonstrate how to control a hazardous material using retention.			
		Proctor Note: Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.			
PERFORMANCE OUTCOME: The candidate will use the appropriate tools and equipment to control a hazardous material spill using retention. The candidate must score a minimum of 7 out of 10 steps , including all MUST PASS items, to successfully complete this skill.					
EQUIPMENT REQUIRED: <ul style="list-style-type: none"> • Radios • ERG. • Plastic sheeting • PPE • SCBA • Shovels/rakes • pylons • Hoseline • Containers 					
CONDITIONS: Given a hazardous materials release, spill or leak, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select the appropriate product control technique to confine/contain the release. MUST PASS				
2.	Ensure that all responders involved in the control function are wearing the appropriate PPE for performing retention operations and that appropriate hand tools have been selected. MUST PASS				
3.	Select a location to efficiently and safely perform the retention operation. MUST PASS				
4.	Evaluate the rate of flow of the leak to determine the required capacity of the retention Vessel. MUST PASS				
5.	Working as a team, retain the hazardous liquid so that it can no longer flow.				
6.	Upon mitigation of the incident, place any contaminated material, such as clothing, in a approved container for transportation to a disposal location.				
7.	Seal and label container and document appropriate information for department records.				
8.	Decontaminate tools.				
9.	Advance to decontamination line for decontamination.				
10.	Complete required reports and supporting documentation.				

First Test:

Total points needed to pass: 7 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 7 Total points scored: _____ All **MUST PASS** items passed: Yes _____ No _____



HAZARDOUS MATERIALS OPERATIONS

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Proctor/Candidate Comments:



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Mission Specific
9.6 Product Control
9.6.1 Perform Dilution

JPR-HMO #34

Created: December 19, 2023

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9.6.1 NFPA 470, 2022 Edition	TASK: Using the appropriate tools and equipment, the candidate shall demonstrate how to control a hazardous material using dilution. Proctor Note: Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.
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PERFORMANCE OUTCOME: The candidate will use the appropriate tools and equipment to control a hazardous material spill using dilution. The candidate must score a **minimum of 9 out of 12 steps**, including all **MUST PASS** items, to successfully complete this skill.

EQUIPMENT REQUIRED:		
<ul style="list-style-type: none"> • Radios • ERG. • Plastic sheeting • Water supply 	<ul style="list-style-type: none"> • PPE • SCBA • Shovels/rakes • Fire apparatus 	<ul style="list-style-type: none"> • pylons • Hoseline • Containers

CONDITIONS: Given a hazardous materials release, spill or leak, the candidate shall demonstrate the ability to:

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select the appropriate product control technique to confine/contain the release. MUST PASS				
2.	Ensure that all responders involved in the control function are wearing the appropriate PPE for performing dilution operations and that appropriate hand tools have been selected. MUST PASS				
3.	Select a location to efficiently and safely perform the dilution operation. MUST PASS				
4.	Evaluate the rate of flow of the leak to determine the required capacity of the retention area and the quantity of water required to dilute the material. MUST PASS				
5.	Working as a team, monitor/assess the leak and advance hoselines and tools to retention area.				
6.	Flow water to dilute spilled material. MUST PASS				
7.	Monitor any dikes or dams to ensure integrity of retention area. MUST PASS				
8.	Upon mitigation of the incident, place any contaminated material, such as clothing, in a approved container for transportation to a disposal location.				
9.	Seal and label container and document appropriate information for department records.				
10.	Decontaminate tools.				
11.	Advance to decontamination line for decontamination.				
12.	Complete required reports and supporting documentation.				



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

First Test:

Total points needed to pass: 9 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 9 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

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Re-Test Evaluator	Date	Re-Test Candidate	Date
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Proctor/Candidate Comments:



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Mission Specific

9.6 Product Control

9.6.1 Perform Vapor Dispersion

JPR-HMO #35

Created: December 19, 2023

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9.6.1 NFPA 470, 2022 Edition		TASK: Using the appropriate tools and equipment, the candidate shall demonstrate how to control a hazardous material using vapor dispersion. Proctor Note: Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.			
PERFORMANCE OUTCOME: The candidate will use the appropriate tools and equipment to control a hazardous material spill using vapor dispersion. The candidate must score a minimum of 7 out of 9 steps , including all MUST PASS items, to successfully complete this skill.					
EQUIPMENT REQUIRED: <ul style="list-style-type: none"> • Radios • ERG. • Plastic sheeting • Water supply • PPE • SCBA • Shovels/rakes • Fire apparatus • pylons • Hoseline • Containers 					
CONDITIONS: Given a hazardous materials release, spill or leak, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select the appropriate product control technique to confine/contain the release. MUST PASS				
2.	Ensure that all responders involved in the control function are wearing the appropriate PPE for performing vapor dispersion operations and that appropriate tools have been selected. MUST PASS				
3.	Select a location to efficiently and safely perform the vapor dispersion operation. MUST PASS				
4.	Working as a team, advance the hoseline to a position to apply agent through vapor cloud to disperse vapors.				
5.	Constantly monitor the leak concentration, environmental impact and water stream effectiveness. MUST PASS				
6.	Upon mitigation of the incident, place any contaminated material, such as clothing, in a approved container for transportation to a disposal location.				
7.	Decontaminate tools.				
8.	Advance to decontamination line for decontamination.				
9.	Complete required reports and supporting documentation.				



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

First Test:

Total points needed to pass: 7 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 7 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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Proctor/Candidate Comments:



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

Mission Specific

9.6 Product Control

9.6.1 Perform Vapor Suppression

JPR-HMO #36

Created: December 19, 2023

Candidate: _____

Date: _____

Student#: _____

STANDARD: 9.6.1 NFPA 470, 2022 Edition	TASK: Using the appropriate tools and equipment, the candidate shall demonstrate how to control a hazardous material using vapor suppression. Proctor Note: Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.
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PERFORMANCE OUTCOME: The candidate will use the appropriate tools and equipment to control a hazardous material spill using vapor suppression. The candidate must score a **minimum of 10 out of 13 steps**, including all **MUST PASS** items, to successfully complete this skill.

EQUIPMENT REQUIRED: <ul style="list-style-type: none"> • Radios • ERG. • Containers • Water supply 			<ul style="list-style-type: none"> • PPE • SCBA • Firefighting foam • Fire apparatus 	<ul style="list-style-type: none"> • Pylons • Hoseline
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CONDITIONS: Given a hazardous materials release, spill or leak, the candidate shall demonstrate the ability to:

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select the appropriate product control technique to confine/contain the release. MUST PASS				
2.	Ensure that all responders involved in the control function are wearing the appropriate PPE for performing vapor suppression operations and that appropriate tools have been selected. MUST PASS				
3.	Select a location to efficiently and safely perform the vapor suppression operation. MUST PASS				
4.	Evaluate the quantity and surface area of the hazardous material that has leaked.				
5.	Determine the appropriate type of foam for the type of hazardous material present. MUST PASS				
6.	Working as a team, deploy the foam eductor and foam, and advance the hoseline and and foam nozzle to a position from which to apply the foam.				
7.	Flow hoseline until finished foam is produced at the nozzle.				
8.	Apply finished foam in an even layer covering the entire hazardous material spill area. MUST PASS				
9.	Upon mitigation of the incident, place any contaminated material, such as clothing, in an approved container for transportation to a disposal location.				
10.	Seal and label the container and document appropriate information for department records.				
11.	Decontaminate tools.				
12.	Advance to decontamination line for decontamination.				



HAZARDOUS MATERIALS OPERATIONS

NFPA 470, 2022 Edition

13.	Complete required reports and supporting documentation.				
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First Test:

Total points needed to pass: 10 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Second Test:

Total points needed to pass: 10 Total points scored: _____ All MUST PASS items passed: Yes _____ No _____

Evaluator (Print & Sign)	Date	Candidate	Date
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Proctor/Candidate Comments:
