



HAZARDOUS MATERIALS OPERATIONS

Practical Skills Certification Evaluation Packet National Fire Protection Association (NFPA) Standard 472, 2013 Edition

Test Construction Instructions

The skills examination will consist of three stations representing a random sampling of the standard. The practical skills have been broken down into three major categories, of which the Test Control Officer will randomly select the prescribed number of skill sheets per category. Candidates are required to successfully complete the selected practical skills during final certification examinations at the Operations level.

Hazardous Materials Operations Practical Skills Job Performance Requirements (JPRs)

Skill Sheet #	NFPA Section	Tasks	Minimum Number of Evaluation Sheets Required: 5 Sheets must be selected
HMO 1	5.1.2.2, 5.5.2, 6.6.3.1, 6.2.1.2	Scenario - Hazardous Materials Spill	Select 1 Skill Sheet from this category
HMO 2	5.1.2.2, 5.5.2, 6.6.3.1, 6.2.1.2	Scenario - Hazardous Materials Fire	
HMO 3	5.2.1.1	Surveying the Hazardous Materials/ WMD Incident	Select 2 Skill Sheets from this category minimum
HMO 4	5.2.1.1.1, 5.2.1.1.2, 5.2.1.1.3, 5.2.1.1.4, 5.2.1.1.5, 5.2.1.1.6, and 5.2.1.1.7	Analyze the Incident - Container Identification	
HMO 5	5.2.1.2.1, 5.2.1.2.2, 5.2.1.3.1	Analyze the Incident - Containers	
HMO 6	5.2.1.3.2	Analyze the Incident - Pesticides	
HMO 7	5.2.2(2), 5.2.2(3)	Analyze the Incident - Chemical	
HMO 8	5.1.2.2 (1)(c), 5.1.2.2 (3)(e), 5.4.1(4), 6.2.4.1	Emergency Decontamination	
HMO 9	6.2.1.2, 6.2.4.1(3), 6.2.4.1(5), 6.6.1.2.2	Don and Doff PPE and Respiratory Protection	
HMO 10	6.2.4.1(3), 6.2.4.1(4)	Undergo Technical Decontamination	Select 2 Skill Sheets from this category minimum
HMO 11	6.2.1.2, 6.2.4.1(5), 6.2.5.1	Reporting and Documenting the Incident Maintain PPE and SCBA	
HMO 12	6.6.1.2, 6.6.3.1, 6.6.4.1	Defensive Control Measures	
HMO 13	6.6.3.1; 6.6.4.1(1), 6.6.4.1(3)	Application of Foam	



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HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 1

IFSAC ID _____ Date _____

NFPA STANDARD: 472, 2013 Edition		JPR: 5.1.2.2, 5.5.2, 6.6.3.1, 6.2.1.2		Hazardous Materials – Spill Leak Control			
TASK: Given a scenario involving hazardous materials, the candidate shall implement a response in accordance with SOP/SOG; evaluate progress to safely meet objectives; survey the incident to identify containers involved; collect hazard and response information; and communicate the status of response through chain of command.							
PERFORMANCE OUTCOME: The candidate shall implement the planned response for a hazardous materials/WMD incident to favorably change the outcomes consistent with the emergency response plan and/or standard operating procedures by completing all tasks correctly.							
CONDITIONS: Given a scenario involving known hazardous materials in a container, interpret the hazard and response information obtained from the current edition of the North American Emergency Response Guidebook, safety data sheet (SDS) or material safety data sheets (MSDS), CHEMTREC/CANUTEC/SETIQ, and/or shipper/manufacturer contracts.							
NO.	TASK STEPS	FIRST TEST		RETEST			
		Pass	Fail	Pass	Fail		
1.	Establish and enforce scene control procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Establish means of evidence preservation, as indicated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Initiate incident management system according to National Incident Management System (NIMS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Identify the type of container and the product involved and determine material behavior based on available information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.	Determine the minimum personal protective equipment required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Implement product control measures as indicated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.	Evaluate the status of the actions taken in accomplishing the response objectives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.	Communicate the status of the response in accordance with local policy and procedure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.	Perform tasks assigned as identified in the action plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.	Evaluate the progress of the actions taken at a hazardous materials/WMD incident to insure that the response objectives are being met safely, effectively, and efficiently by evaluating status of actions taken in accomplishing the response objectives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Evaluator Comments _____

Retest Approved by _____

Evaluator (Print & Sign)

Candidate Signature

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HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 2

IFSAC ID _____ Date _____

NFPA STANDARD: 472, 2013 Edition		JPR: 5.1.2.2, 5.5.2, 6.6.3.1, 6.2.1.2		Hazardous Materials – Fire			
TASK: Given a scenario involving hazardous materials, the candidate shall implement a response in accordance with SOP/SOG; evaluate progress to safely meet objectives; survey the incident to identify containers involved; collect hazard and response information; and communicate the status of response through chain of command.							
PERFORMANCE OUTCOME: The candidate shall implement the planned response for a hazardous materials/WMD incident to favorably change the outcomes consistent with the emergency response plan and/or standard operating procedures by completing all tasks correctly.							
CONDITIONS: Given a scenario involving known hazardous materials in a container, interpret the hazard and response information obtained from the current edition of the North American Emergency Response Guidebook, safety data sheet (SDS) or material safety data sheets (MSDS), CHEMTREC/CANUTEC/SETIQ, and/or shipper/manufacturer contracts.							
NO.	TASK STEPS	FIRST TEST		RETEST			
		Pass	Fail	Pass	Fail		
1.	Establish and enforce scene control procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Establish means of evidence preservation, as indicated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Initiate incident management system according to National Incident Management System (NIMS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Identify the type of container and the product involved and determine material behavior based on available information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.	Determine the minimum personal protective equipment required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Implement product control measures as indicated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.	Evaluate the status of the actions taken in accomplishing the response objectives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.	Communicate the status of the response in accordance with local policy and procedure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.	Perform tasks assigned as identified in the action plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.	Notify the incident commander and other response personnel about critical emergency conditions at the incident, as indicated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 3

IFSAC ID _____ Date _____

NFPA STANDARD: 472, 2013 Edition	JPR: 5.2.1.1	Surveying the Hazardous Materials/WMD Incident			
TASK: Given three examples each of a liquid, gas, and solid hazardous materials or WMD, including various hazard classes, operations level personnel shall identify the general shapes of containers in which hazardous materials/WMD are typically found.					
PERFORMANCE OUTCOME: The candidate will identify three examples each of liquid, gas, and solid hazardous materials or WMD containers.					
CONDITIONS: Given diagrams or pictures of each type.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Liquid Container	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Gas Container	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Solid Container	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 4

IFSAC ID _____ Date _____

NFPA STANDARD: 472, 2013 Edition	JPR: 5.2.1.1.1, 5.2.1.1.2, 5.2.1.1.3, 5.2.1.1.4, 5.2.1.1.5, 5.2.1.1.6, and 5.2.1.1.7	Analyze the Incident – Container Identification			
TASK: Given examples of hazardous materials/WMD containers, the operations level responder shall identify all selected containers by the AHJ:					
PERFORMANCE OUTCOME: The candidate shall correctly identify all containers presented.					
CONDITIONS: Given pictures or diagrams of each selected container.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	Test Control Officer shall select eight (8) of the following containers for final certification examination: Check Containers Selected				
1.	Tank Cars 5.2.1.1.1				
	<input type="checkbox"/> Non-Pressure Tank Cars <input type="checkbox"/> Pressure Tank Cars <input type="checkbox"/> Cryogenic Liquid Tank Cars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Intermodal Tanks 5.2.1.1.2				
	<input type="checkbox"/> Non Pressure Intermodal Tanks <input type="checkbox"/> Pressurized Intermodal Tanks <input type="checkbox"/> Cryogenic Intermodal Tanks <input type="checkbox"/> Tube Modules	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Cargo Tanks 5.2.1.1.3				
	<input type="checkbox"/> Compressed Gas Tube Trailers <input type="checkbox"/> Corrosive Liquid Cargo Tanks <input type="checkbox"/> Cryogenic Liquid Cargo Tanks <input type="checkbox"/> Dry Bulk Cargo Tanks <input type="checkbox"/> High Pressure Cargo Tanks <input type="checkbox"/> Low Pressure Chemical Cargo Tanks <input type="checkbox"/> Non Pressure Liquid Cargo Tanks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Storage Tanks 5.2.1.1.4				
	<input type="checkbox"/> Cryogenic Liquid Storage Tanks <input type="checkbox"/> Non-Pressure Storage Tanks <input type="checkbox"/> Pressure Storage Tanks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Non-Bulk Packages 5.2.1.1.5				
	<input type="checkbox"/> Bags <input type="checkbox"/> Carboys <input type="checkbox"/> Cylinders <input type="checkbox"/> Drums <input type="checkbox"/> Dewar Flasks (Cryogenic Liquids)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Containers or Packages 5.2.1.1.6				
	<input type="checkbox"/> Intermediate Bulk Containers <input type="checkbox"/> Ton Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



HAZARDOUS MATERIALS OPERATIONS

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
7.	Radioactive Materials Containers 5.2.1.1.7				
	<input type="checkbox"/> Excepted Radioactive Material Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Industrial Radioactive Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Type A Radioactive Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Type B Radioactive Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> Type C Radioactive Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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HAZARDOUS MATERIALS OPERATIONS

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NFPA STANDARD: 472, 2013 Edition		JPR: 5.2.1.2.1, 5.2.1.2.2, 5.2.1.2.3		Analyze the Incident – Container Identification			
TASK: Given examples of hazardous materials/WMD containers, the operations level responder shall identify all selected containers by the AHJ:							
PERFORMANCE OUTCOME: The candidate shall correctly identify all containers presented.							
CONDITIONS: Given pictures or diagrams of each selected container.							
NO.	TASK STEPS	FIRST TEST		RETEST			
		Pass	Fail	Pass	Fail		
1.	Marked Transport Vehicles 5.2.1.2.1						
	a. Highway Transport Vehicles, Including Cargo Tanks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	b. Intermodal Equipment, Including Tank Cars/Containers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	c. Rail Transport Vehicles, Including Tank Cars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Facility Containers 5.2.1.2.2						
	a. Product # 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	b. Product # 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	c. Product # 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Pipeline Markers 5.2.1.2.3						
	a. Emergency Telephone Number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	b. Owner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	c. Product	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 6

IFSAC ID _____ Date _____

NFPA STANDARD: 472, 2013 Edition	JPR: 5.2.1.3.2	Analyzing the Incident – Pesticides			
TASK: Given a pesticide label , the first responder shall identify and give the significance of: 1) the active ingredient; 2) the hazard statement; 3) the name of the pesticide; 4) EPA Registration Number; 5) precautionary statement; 6) signal word.					
PERFORMANCE OUTCOME: The candidate shall identify the pieces of information on a pesticide label and match these to its significance in surveying the hazardous materials incident.					
CONDITIONS: Given a pesticide label or copy of a pesticide label and a list of things to identify.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	The name of the active ingredient	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	The name of the hazard statement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	The name of the pesticide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	The EPA Registration Number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	The name of the precautionary statement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	The name of the signal word	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Relay significance of the information gathered to evaluator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 7

IFSAC ID _____ Date _____

NFPA STANDARD: 472, 2013 Edition		JPR: 5.2.2(2), 5.2.2(3)		Analyze the Incident – Chemical	
TASK: Given a Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) , the operations first responder shall:					
1. Verbally identify 2 ways to obtain an MSDS/SDS in an emergency					
2. Identify the following: a) physical and chemical characteristics; b) physical hazards of the material; c) health hazards of the material; d) signs and symptoms of exposure; e) routes of entry; f) permissible exposure limits; g) responsible party contact; h) precautions for safe handling – including hygiene practices protective measures, and procedures for cleanup of spills or leaks; i) applicable control measures, including PPE; j) emergency first aid procedures					
PERFORMANCE OUTCOME: The candidate will correctly give the following information from a MSDS/SDS and verbally identify 2 ways to obtain an MSDS in an emergency.					
CONDITIONS: Given a scenario involving Hazardous Materials/WMD, a MSDS/SDS, a current edition of the North American Emergency Response Guidebook, shipping papers, and a list of materials to identify.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Physical and chemical characteristics (boiling point, specific gravity and/or vapor density, appearance/physical state, odor, flash point, vapor pressure, flammable range, water solubility)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Physical hazards of the chemical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Health hazards of the chemical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Signs and symptoms of exposure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Routes of entry to the body	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Permissible exposure limits of the chemical (PEL/PEL-C, TLV/TWA, STEL, IDLH, LC50/LC50)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	The responsible party contact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Precautions for safe handling (including hygiene practices, protective measures, and procedures for cleanup of spills or leaks)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Applicable control measures, including PPE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	The emergency first aid procedures for the chemical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Two (2) ways to obtain an MSDS in an emergency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Evaluator (Print & Sign)

Candidate Signature

Date

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HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 8

IFSAC ID _____ Date _____

NFPA STANDARD: 472, 2013 Edition		JPR: 5.1.2.2(1)(c), 5.1.2.2 (3)(e), 5.4.1(4), 6.2.4.1		Emergency Decontamination	
TASK: Demonstrate the ability to perform emergency decontamination on a contaminated victim.					
PERFORMANCE OUTCOME: The candidate shall be able to remove a victim from the contaminated area and properly implement emergency decontaminate procedures.					
CONDITIONS: Given a simulated contaminated person and a scenario, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the proper emergency decontamination procedure based on the Emergency Response Guide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Ensure all responders involved in control functions don appropriate PPE to perform emergency decontamination operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Remove the victim from the contaminated area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Immediately wash any contaminated clothing or exposed body parts by flooding with water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Remove the victim's clothing and/or PPE quickly. If necessary, cut articles of clothing from the top of the body down to minimize contamination spread.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Implement head-to-toe rinse, wash, rinse cycle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Transfer victim on to medical personnel and communicate the hazard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Decontaminate tools	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 9

IFSAC ID _____ Date _____

NFPA STANDARD: 472, 2013 Edition		JPR: 6.2.1.2, 6.2.4.1(3), 6.2.4.1(5), 6.6.1.2.2		Don and Doff PPE and Respiratory Protection			
TASK: Demonstrate the ability to don personal protective equipment (PPE) with respiratory protection, work in a contaminated area (simulated), and doff the equipment provided to support mission-specific tasks.							
PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to correctly don PPE and respiratory protection, work in a contaminated area, exit the contaminated area, and doff gear in accordance with AHJ policies and procedures.							
CONDITIONS: Given a simulated hazardous materials environment, the candidate shall demonstrate the ability to complete all task steps using Personal Protective Equipment, SCBA, and decontamination materials according to AHJ policies and procedures.							
NO.	TASK STEPS	FIRST TEST		RETEST			
		Pass	Fail	Pass	Fail		
1.	Select and confirm adequate personal protective equipment and SCBA is appropriate for the product or substance involved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Correctly don personal protective clothing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Correctly don respiratory protection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Verify all personal protective clothing correctly is in place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.	Perform work as assigned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Complete decontamination and doffing procedures in accordance with local AHJ policy and procedure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 10

IFSAC ID _____ Date _____

NFPA STANDARD: 472, 2013 Edition		JPR: 6.2.4.1(3), 6.2.4.1(4)		Undergoing Technical Decontamination			
TASK: Demonstrate local procedures for operation level responders undergoing the technical decontamination process.							
PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to correctly don Personal Protective Equipment (PPE) and respiratory protection, work in a contaminated area, exit the contaminated area, and doff gear in accordance with AHJ policies and procedures of technical decontamination.							
CONDITIONS: Given a simulated hazardous materials environment and a decontamination corridor, the candidate shall demonstrate the ability to undergo technical decontamination.							
NO.	TASK STEPS	FIRST TEST		RETEST			
		Pass	Fail	Pass	Fail		
1.	Enter the decontamination corridor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Drop tools in collection container	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Undergo gross decontamination	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Undergo secondary decontamination wash	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.	Remove outer PPE, place in waste container	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Remove respiratory protection, removing face piece last (Note: Steps 5 & 6 may need to be reversed depending on PPE worn)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.	Remove undergarments (as appropriate)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.	Shower and wash thoroughly from the top down	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.	Monitor for additional contamination using the appropriate detection device (Note: If contamination is detected, repeat decontamination wash and/or change method as appropriate)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.	Proceed to medical evaluation station	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Evaluator Comments _____

Retest Approved by _____

Evaluator (Print & Sign)

Candidate Signature

Date

Retest Evaluator (Print & Sign)

Candidate Signature

Date



HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 11

IFSAC ID _____ Date _____

NFPA STANDARD: 472, 2013 Edition	JPR: 6.2.1.2, 6.2.4.1(5), 6.2.5.1	Reporting and Documenting the Incident – Maintain PPE and SCBA			
TASK: Demonstrate the ability to don personal protective equipment (PPE) with respiratory protection, work in a contaminated area (simulated), and doff the equipment provided to support mission-specific tasks.					
PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to correctly don PPE and respiratory protection, work in a contaminated area, exit the contaminated area, and doff gear in accordance with AHJ procedure.					
CONDITIONS: Given a simulated hazardous materials environment, the candidate shall demonstrate the ability to complete all task steps using Personal Protective Equipment, SCBA, and decontamination materials according to Authority Having Jurisdiction (AHJ).					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Wash SCBA/respirator with manufacturer recommended cleaner/disinfectant and rinse completely with water and air dry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Clean equipment with damp cloth or according to department policies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Check straps and backpack assembly (SCBA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Check condition and hydrostatic test date of cylinder (SCBA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Turn cylinder valve on fully and compare that both gauges are within 100 psi (low pressure) to 200 psi (high pressure) of each other (SCBA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Check regulator operation by connecting to face piece and breathing (SCBA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Check face piece and exhalation valve by inhaling & exhaling (SCBA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Check by-pass operation and ensure by-pass is in the off position after testing (SCBA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Check low pressure alarm while bleeding the air line (SCBA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Return all straps, valves, and components back to ready state (SCBA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Check the air cylinder is in off position and at least 90% to full (SCBA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Remove from service and notify supervisor if irregularities are found	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Complete reports and documentation pertaining to equipment use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Evaluator Comments _____

Retest Approved by _____

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Candidate Signature

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HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 12

IFSAC ID _____ Date _____

NO.	TASK STEPS	DEFENSIVE PRODUCT CONTROL MEASURES			
		FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
NFPA STANDARD: 472, 2013 Edition		JPR: 6.6.1.2, 6.6.3.1, 6.6.4.1		Defensive Product Control Measures	
TASK: Given examples of hazardous materials/WMD incidents, the operations level responder assigned to perform product control shall identify the options for each response objective and shall meet the requirements as prescribed by the AHJ:					
PERFORMANCE OUTCOME: The candidate will successfully demonstrate each of the abilities identified within the checklist.					
CONDITIONS: The candidate shall complete the following: using Personal protective equipment, self-contained breathing apparatus (SCBA), shovels/hand tools, adsorbent pads/material, tarps/salvage cover, sandbags, fire hose, and water supply. Other equipment/materials may be used based on local resources.					
	Evaluator shall select two of the following tasks for final certification examination:				
1.	<input type="checkbox"/> Absorption Examples: <i>absorbent pads, saw dust, diatomaceous earth, gelling agent</i>				
	a. Use common, available materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Avoid contact with the hazardous material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Ensure drains do not become contaminated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d. Ensure hazardous material is absorbed into absorbent material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	<input type="checkbox"/> Damming Examples: <i>sand, dirt, salvage cover, absorbent pads, sewer-storm drain plugs</i>				
	a. Use common, available materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Avoid contact with the hazardous material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Ensure dam is not breached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	<input type="checkbox"/> Diking Examples: <i>dirt, sand bags, absorbent pads, clay</i>				
	a. Use common, available materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Avoid contact with the hazardous material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Form a "v" and a "circle" dike	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d. Ensure hazardous material does not enter drains or manholes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	<input type="checkbox"/> Dilution Examples: <i>applied water stream to dilute substance</i>				
	a. Use common, available materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Avoid contact with the hazardous material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Ensure the hazardous material is water soluble	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d. Do NOT overflow retention pond of hazardous material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



HAZARDOUS MATERIALS OPERATIONS

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
5.	<input type="checkbox"/> Diversion Examples: <i>hovels or high pressure water steams, sand bags</i>				
	a. Use common, available materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Avoid contact with the hazardous material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Ensure hazardous material is diverted away from drains and waterways	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d. Make sure the hazardous material does NOT breach the diversion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	<input type="checkbox"/> Retention Examples: <i>salvage cover catch-all basin, earthen dams, floating confinement boom, temporary patches on containers</i>				
	a. Define the purpose of retention	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Use common, available materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Avoid contact with the hazardous material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d. Ensure product flow does not exceed retention area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	<input type="checkbox"/> Vapor Dispersion Examples: <i>water streams, fans</i>				
	a. Avoid contact with the hazardous material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Eliminate ignition sources, if applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Use water spray or fans to control dispersion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d. Move vapors away from threatened area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	<input type="checkbox"/> Remote Valve Shut-off				
	a. Avoid contact with the hazardous material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Eliminate ignition sources, if applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Manipulate valve as instructed to control the flow of the product	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Evaluator Comments _____

Retest Approved by _____

Evaluator (Print & Sign)

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HAZARDOUS MATERIALS OPERATIONS

Candidate Name _____ Skill Sheet 13

IFSAC ID _____ Date _____

NFPA STANDARD: 472, 2013 Edition	JPR: 6.6.3.1; 6.6.4.1(1), 6.6.4.1(3)	Application of Foam			
TASK: Using class B foam or simulated vapor suppressing agent and foam equipment furnished by the AHJ, demonstrate the proper application of the fire-fighting foam(s) or vapor suppressing agent(s) on a spill or fire involving hazardous materials.					
PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to properly apply firefighting foam or a vapor suppressing agent. The agent application should be sufficient to prevent re-ignition, and provide safety to the team at all times.					
CONDITIONS: Given a hazardous materials scenario, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Approach the spill or fire from uphill and upwind	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Coordinate the attack team's advancement toward the fire so that a smooth and safe approach is maintained	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Set nozzle to correct pattern (<i>and GPM flow, if applicable</i>)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Use correct application procedures to effectively control vapors or fire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Demonstrate application of a foam blanket over a fuel spill using one of the following techniques. Check the selected method. <input type="checkbox"/> Roll on method <input type="checkbox"/> Bank down method <input type="checkbox"/> Rain down method	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Apply properly proportioned foam to the surface of the fuel and create and maintain a foam blanket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Extinguish the fire and prevent re-ignition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Maintain team protection with a foam stream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Face the hazard until the team has completely retreated to a safe haven	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Skill Sheet Performance Outcome		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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