FIRE PROTECTION BUREAU
FIRE SERVICE CERTIFICATION
PO Box 42642
Olympia WA 98504-2642
(360) 596-3945

HAZARDOUS MATERIALS TECHNICIAN

NFPA Standard 1072, 2017 Edition, Chapter 7

Test Construction Instructions

Testing should be in a scenario format with a different evaluator at each station; 8-10 skills are selected at random including at least 4 mandatory and 4 random. This level of testing has specific requirements for equipment and PPE. Suggest testing candidates first individually using test equipment, PPE requirements, and decontamination skills. Then test all candidates as a member of a Haz-Mat team with a scenario.

Hazardous Materials Technician Job Performance Requirements

Skill Sheet	NFPA Section #	Tasks	Certification JPR Requirements: Mandatory, Random (for total of 10 Skill Sheets selected)
		Mandatory Skills	
1.	7.2.1	Detection, Monitoring, and Sampling	**Select 5 Mandatory**
2.	7.2.2	Hazard and Response Information Collection and Interpretation	
3.	7.2.3	Assessing Container Condition	
4.	7.2.4	Predicting Behavior	
5.	7.2.5	Estimating Outcomes	
6.	7.3.1	Response Planning (Response Objectives and Options)	
7.	7.3.2	Personal Protective Equipment (PPE) Selection	
8.	7.3.4	Action Plan Development	
		Random Skills	
9.	7.4.1	Action Plan Implementation (Performing Assigned IMS/ICS Duties)	**Select 5 Random**
10.	7.4.2	Personal Protective Equipment Use	
11.	7.4.3.(1)	Performing Control Functions (Product Control)	
12.	7.4.3.(2)	Controlling Container Leaks	
13.	7.4.3.(3)	Over packing Non-Bulk and Radioactive Materials	
14.	7.4.3.(4)	Liquid Product Transfer	
15.	7.3.3 & 7.4.4(1)	Decontamination Method Selection: (Mass Decontamination)	
16.	7.4.4.2	Technical Decontamination	
17.	7.5.1	Evaluating and Reporting Progress	
18.	7.6.1	Terminating the Incident	

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Candidate Name _____ **Skill Sheet** 1

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.2.1	**SKILL AREA:** Analyzing the Incident, thru Detection, Monitoring, and Sampling

TASK: Classify hazardous materials/WMD and verify the presence and concentrations of hazardous materials through detection, monitoring, and sampling at a hazardous materials/WMD incident:

CONDITIONS: Given a hazardous materials/WMD incident with released identified and unidentified hazardous materials; an assignment in an incident action plan (IAP); policies and procedures; approved resources; detection and monitoring equipment; and personal protective equipment (PPE), so that PPE is selected and used; hazardous materials/WMD are classified by their basic hazard categories:

PERFORMANCE OUTCOME: The presence of hazardous materials is verified; the concentrations of hazardous materials in the atmosphere are determined; signs of exposure in victims and responders are recognized and identified; samples of solids, liquids, and gases are collected; results of detection and monitoring equipment are read, interpreted, recorded, and communicated:

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select appropriate Personal Protective Equipment (PPE)	☐	☐	☐	☐
2.	Survey the hazardous material/WMD incident to identify materials involved, identify or classify unknown materials, gather sampling, and through the use of monitoring equipment verify presence and concentration of hazardous materials.	☐	☐	☐	☐
3.	Candidate shall use each of the following types of detection, monitoring, and sampling equipment to either classify hazardous materials by basic hazard categories, verify the presence of hazardous materials or determine the concentration of hazardous materials:	☐	☐	☐	☐
	a. Colorimetrics (e.g., tubes, chips, papers, strips, reagents)	☐	☐	☐	☐
	b. Electrochemical cells (e.g., toxic gas sensors)	☐	☐	☐	☐
	c. Flammable gas/LEL	☐	☐	☐	☐
	d. Noncontact thermal detection device	☐	☐	☐	☐
	e. Oxygen concentration	☐	☐	☐	☐
	f. Photoionization detector (PID)	☐	☐	☐	☐
	g. Radiation detection and monitoring devices	☐	☐	☐	☐
4.	Determine radiation dose rates from radioactive material labels, if applicable	☐	☐	☐	☐
5.	Collect samples of gases, liquids, and solids; by monitoring, reading, interpreting, recording, and communicating readings from detection, monitoring, and sampling equipment used according to the manufacturers' specifications and recommendations	☐	☐	☐	☐
	a. Demonstrates appropriate method for collecting a gas based on product	☐	☐	☐	☐
	b. Demonstrates appropriate method for collecting a liquid based on product	☐	☐	☐	☐
	c. Demonstrates appropriate method for collecting a solid based on product	☐	☐	☐	☐

(CONTINUED ON THE NEXT PAGE)

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NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.2.1	**SKILL AREA:** Analyzing the Incident, thru Detection, Monitoring, and Sampling				
6.	Completes required reports and supporting documentation for detection, monitoring, and sampling operations		☐	☐	☐	☐
Overall Skill Sheet Score			☐	☐	☐	☐
Candidate Stop Safety: Yes ☐		**Equipment Stop Safety: Yes** ☐				

Evaluator/Candidate Comments _____

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Candidate Name _____ **Skill Sheet** 2

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.2.2	**SKILL AREA:** Hazard and Response Information Collection and Interpretation
TASK: Collect and interpret hazard and response information at a hazardous materials/WMD incident:		
CONDITIONS: Given a hazardous materials/WMD incident, an assignment in a IAP, AHJ policies and procedures, approved reference sources, and using approved tools and equipment:		
PERFORMANCE OUTCOME: So that the hazard and response information is collected, interpreted, and communicated.		

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Collects, and interprets hazard and response information	☐	☐	☐	☐
2.	Identifies signs and symptoms of exposure to hazardous materials/WMD, including target organ effects of exposure to hazardous materials/WMD	☐	☐	☐	☐
3.	Determines radiation exposure rates from labels attached to radioactive materials containers if present	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐	**Equipment Stop Safety: Yes** ☐

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Candidate Name _____ **Skill Sheet** 3

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.2.3	**SKILL AREA:** Assessing Container Condition

TASK: Assess the condition of a container and its closures at a hazardous materials/WMD incident:

CONDITIONS: Given an incident involving hazardous materials/WMD; an assignment in an IAP; policies and procedures; the scope of the incident; identity of material(s) involved and their hazards, including results of detection, monitoring, and sampling; a container with required markings; and approved resources and PPE:

PERFORMANCE OUTCOME: The container and its closures are inspected; the type of damage to the container and closures is identified the type of stress on the container is identified; the level of risk associated with container and closure damage and stress is identified; safety procedures are followed; hazards are avoided or minimized; personnel, tools, and equipment are decontaminated; and a description of the condition of the container and its closures is communicated:

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Performs duties of an assigned hazardous materials/WMD branch or group position within the local incident management system (IMS)	☐	☐	☐	☐
2.	Dons, works in appropriate personal protective clothing (PPE)	☐	☐	☐	☐
3.	Assesses the condition of the container and its closures	☐	☐	☐	☐
4.	Identifies the type of damage and level of risk associated with the damage	☐	☐	☐	☐
5.	Identifies stress(es) on the container	☐	☐	☐	☐
6.	Communicates the condition of the container, its closures and the level of risk associated with that condition	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐	**Equipment Stop Safety: Yes** ☐

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Candidate Name _____ **Skill Sheet** 4

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.2.4	**SKILL AREA:** Predicting Behavior
TASK: Predict the behavior of the hazardous materials/WMD involved in a hazardous materials/WMD incident		
CONDITIONS: Given an incident involving multiple hazardous materials/WMD; an assignment in an IAP; policies and procedures; physical and chemical properties of the materials involved; results of detection, monitoring, and sampling		
PERFORMANCE OUTCOME: The reactivity issues and hazards of the combined materials are identified, and a description of the likely behavior of the hazards is communicated.		

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Using the process to predict likely behavior of materials and their containers when multiple materials are involved	☐	☐	☐	☐
2.	Identifying reactivity issues associated with mixing various hazardous materials	☐	☐	☐	☐
3.	Predicts the likely behavior of released material and their containers when multiple materials are involved	☐	☐	☐	☐
4.	Collects and interprets hazard and response information from printed and technical resources, computer data bases and monitoring equipment	☐	☐	☐	☐
5.	Describes type and extent of damage to containers	☐	☐	☐	☐
6.	Communicating the predicted behavior	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐	**Equipment Stop Safety: Yes** ☐

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Candidate Name _____ **Skill Sheet** 5

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.2.5	**SKILL AREA:** Estimating Outcomes
TASK: Estimate the potential outcomes at a hazardous materials/WMD incident.		
CONDITIONS: Given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, the likely behavior of the container and its contents, and approved resources and equipment, so that the concentrations of materials within the endangered area are measured or predicted; physical, health, and safety hazards within the endangered area are identified;		
PERFORMANCE OUTCOME: Areas of potential harm in the endangered area are identified; potential outcomes within the endangered area are identified; and potential outcomes are communicated.		

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Uses approved resources and equipment	☐	☐	☐	☐
2.	Determines concentrations of materials within the endangered area	☐	☐	☐	☐
3.	Identifies the physical, health, and safety hazards within the endangered area	☐	☐	☐	☐
4.	Identifies the areas of potential harm in the endangered area	☐	☐	☐	☐
5.	Determines integrity of the container	☐	☐	☐	☐
6.	Determines a breach has occurred	☐	☐	☐	☐
7.	Estimates the potential outcomes and size of endangered area using computer modeling, monitoring equipment and/or specialists in this field	☐	☐	☐	☐
8.	Communicating the potential outcomes	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐	**Equipment Stop Safety: Yes** ☐

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Candidate Name _____ **Skill Sheet** 6

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.3.1	**SKILL AREA:** Response Objectives and Options

TASK: Develop and recommend to the incident commander or hazardous materials officer response objectives and action options at a hazardous materials/WMD incident:

CONDITIONS: Given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis, including incident-related information, life safety risks, environmental risks, and property risks; available resources; and policies and procedures:

PERFORMANCE OUTCOME: Response objectives are identified for the incident and action options are identified for each response objective:

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Describes response objectives for hazardous material/WMD incident	☐	☐	☐	☐
2.	Identifies the potential response options available based on response objectives	☐	☐	☐	☐
3.	Selects appropriate Personal Protective Equipment required for a given action plan	☐	☐	☐	☐
4.	Selects technical decontamination process to minimize the hazard	☐	☐	☐	☐
5.	Develops an action plan for hazardous material/WMD incident, including a site safety plan and control plan, consistent with the emergency response or standard operating procedures and within the capability of the available personnel, personal protective equipment and control equipment	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐ **Equipment Stop Safety: Yes** ☐

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Candidate Name _____ **Skill Sheet** 7

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.3.2	**SKILL AREA:** Personal Protective Equipment (PPE) Selection
TASK: Select the PPE ensemble required for a given response option at a hazardous materials/WMD incident:		
CONDITIONS: Given a hazardous materials/WMD incident, results of the incident analysis, response objectives and options for the incident, approved references, and policies and procedures:		
PERFORMANCE OUTCOME: Candidate will ensure required PPE is identified for each response option.		

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identifies and describes the four (4) levels of PPE as specified by EPA and NIOSH	☐	☐	☐	☐
2.	Identifies and describes PPE options available based on type(s) of harm at HMWMD incident	☐	☐	☐	☐
3.	Identifies process when considering respiratory protection for a specified action option	☐	☐	☐	☐
4.	Identifies at least three indications of material degradation of chemical-protective clothing	☐	☐	☐	☐
5.	Identifies the different designs of vapor-protective and splash-protective clothing	☐	☐	☐	☐
6.	Describes advantages and disadvantages to vapor-protective and splash-protective clothing	☐	☐	☐	☐
7.	Determines the protective clothing construction materials for a given action option using chemical compatibility charts	☐	☐	☐	☐
8.	Identifies the physiological and psychological stresses that can affect users of PPE	☐	☐	☐	☐
9.	Describes terms, explains impact and significance on selection of chemical-protective clothing	☐	☐	☐	☐
10.	Identifies process for selecting protective clothing for HMWMD incidents and selects PPE ensemble for a specified response option based on all hazards identified	☐	☐	☐	☐
11.	Determine the effectiveness of protective clothing based on its uses and limitations	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐	**Equipment Stop Safety: Yes** ☐

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Candidate Name _____ **Skill Sheet** 8

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.3.4	**SKILL AREA:** Action Plan Development

TASK: Develop a plan of action for a hazardous materials/WMD incident.

CONDITIONS: Given a hazardous materials/WMD incident, an assignment in an IAP, results of the incident analysis, response objectives and options for the given incident, available resources, and policies and procedures, so that the tasks and resources required to meet the response objectives are identified, specified response objectives and response options are addressed.

PERFORMANCE OUTCOME: Determine the plan is consistent with the emergency response plan policies and procedures, and plan is within the capability of available personnel, PPE, and control equipment.

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Describes purpose of, procedures for, equipment required for, and safety precautions used with techniques for HMWMD control	☐	☐	☐	☐
2.	Develops incident action plan including site safety and control plan	☐	☐	☐	☐
3.	Lists and describes the safety considerations based on the incident and action plan	☐	☐	☐	☐
4.	Identifies points that should be made in a safety briefing prior to working at the scene	☐	☐	☐	☐
5.	Identifies atmospheric and physical safety hazards associated with HMWMD incidents involving confined space	☐	☐	☐	☐
6.	Identifies pre-entry activities to be performed	☐	☐	☐	☐
7.	Identifies procedures, equipment, and safety precautions for preserving and collecting legal evidence at HMWMD incidents	☐	☐	☐	☐
8.	Describes purpose of, procedures for, equipment required, and safety precautions used with techniques for HMWMD control	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐ **Equipment Stop Safety: Yes** ☐

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Candidate Name _____ **Skill Sheet** 9

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.4.1	**SKILL AREA:** Performing Assigned IMS/ICS Duties

TASK: Perform assigned hazardous materials branch or group functions within the incident command system (ICS) at a hazardous materials/WMD incident.

CONDITIONS: Given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis; policies and procedures, including an emergency response plan and standard operating procedures; the IAP; and approved resources:

PERFORMANCE OUTCOME: Candidate shall ensure the assigned functions within the hazardous materials branch or group are completed

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Performs duties and responsibilities of an assigned function in the hazardous materials/WMD branch or group organization within the local incident management system (IMS)	☐	☐	☐	☐
2.	Dons, works in appropriate personal protective clothing, including, but not limited to, both liquid splash- and vapor-protective clothing with correct respiratory protection	☐	☐	☐	☐
3.	Performs control functions identified in the incident action plan	☐	☐	☐	☐
4.	Performs decontamination functions identified in the incident action plan	☐	☐	☐	☐
5.	Doffs appropriate personal protective clothing, including, but not limited to, both liquid splash- and vapor-protective clothing with correct respiratory protection	☐	☐	☐	☐
6.	Communicates observations to hazardous materials branch director/group supervisor, ICS operations section chief, or IC	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐ **Equipment Stop Safety: Yes** ☐

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Candidate Name _____ **Skill Sheet** 10

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.4.2	**SKILL AREA:** Personal Protective Equipment Use

TASK: Don, work in, and doff PPE at a hazardous materials/WMD incident.

CONDITIONS: Given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, results of the incident analysis, response objectives and options for the incident, and PPE ensembles as identified in the IAP:

PERFORMANCE OUTCOME: PPE is selected, inspected, donned, worked in, decontaminated, and doffed; safety procedures are followed; hazards are avoided or minimized; equipment is maintained and stored properly; and the use of PPE is reported and documented.

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Describe three safety procedures for personnel working in chemical-protective clothing	☐	☐	☐	☐
2.	Describe three emergency procedures for personnel working in chemical-protective clothing	☐	☐	☐	☐
3.	Describe procedures for going through technical decontamination while wearing PPE and inspecting PPE after decon	☐	☐	☐	☐
4.	Demonstrate the ability to don, work in, and doff PPE and self-contained breathing apparatus	☐	☐	☐	☐
5.	Complete all required reports and supporting documents for the use of PPE	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐ **Equipment Stop Safety: Yes** ☐

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Candidate Name _____ **Skill Sheet** 11

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.4.3(1)	**SKILL AREA:** Performing Control Functions (Product Control)

TASK: Perform product control techniques at a hazardous materials/WMD incident.

CONDITIONS: Given a hazardous materials/WMD incident with release of product, an assignment in an IAP, results of the incident analysis, policies and procedures for product control, response objectives and options for the incident, and approved tools, equipment, control agents, and PPE, so that an approved product control technique is selected and implemented; the product is controlled; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed:

PERFORMANCE OUTCOME: Candidate shall ensure hazards are avoided or minimized; personnel, victims, tools, and equipment used are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented:

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select and use approved PPE/SCBA	☐	☐	☐	☐
2.	Select and use approved control agents and equipment on a release involving hazardous materials/WMD	☐	☐	☐	☐
3.	Use container control valves and remote emergency shutoff devices if applicable	☐	☐	☐	☐
4.	Perform product control techniques	☐	☐	☐	☐
5.	Inspect and maintain tools and equipment	☐	☐	☐	☐
6.	Complete all required and supporting documentation for product control operations	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐ **Equipment Stop Safety: Yes** ☐

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Candidate Name _____ **Skill Sheet** 12

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.4.3(2)	**SKILL AREA:** Performing Control functions (As identified in the Incident Action Plan)

TASK: Control leaks from containers and their closures at a hazardous materials/WMD incident:

CONDITIONS: Given three scenarios, including (1) a leak from a bulk or non-bulk pressure container or its closures, (2) a leak from a non-bulk liquid container or its closures, and (3) a leak from a bulk liquid container or its closures; an assignment in an IAP; results of the incident analysis; policies and procedures for controlling leaks from containers and/or their closures; and approved tools, equipment, and PPE:

PERFORMANCE OUTCOME: Candidate shall select an approved product control technique; select approved PPE; ensure exposures and personnel are protected; ensure safety procedures are followed; ensure hazards are avoided or minimized; ensure hazard monitoring is completed; leaks are controlled (confined or contained); emergency responders, tools, and equipment used are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented:

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select and use approved PPE/SCBA	☐	☐	☐	☐
2.	Control leaks on containers and their closures by (patching, plugging, sealing closures, using remote valve shutoff, closing valves, repositioning container; replacing missing plugs, and tightening loose fittings)	☐	☐	☐	☐
3.	Select and use approved control agents and equipment	☐	☐	☐	☐
4.	**Given a pressure vessel, select the material or equipment and demonstrate a method(s) to contain leaks from the following locations: <u>Evaluator shall select a minimum of 3 types of leaks and circle the selections:</u>**				
	a. Fusible plug	☐	☐	☐	☐
	b. Fusible plug threads	☐	☐	☐	☐
	c. Side wall of cylinder	☐	☐	☐	☐
	d. Valve blowout	☐	☐	☐	☐
	e. Valve gland	☐	☐	☐	☐
	f. Valve inlet threads	☐	☐	☐	☐
	g. Valve seat	☐	☐	☐	☐
	h. Valve stem assembly blowout	☐	☐	☐	☐
5.	**Given the fittings on a pressure container, demonstrate the ability to perform the following:**				
	a. Close valves that are open	☐	☐	☐	☐
	b. Replace missing plugs	☐	☐	☐	☐
	c. Tighten loose plugs	☐	☐	☐	☐

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NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.4.3(2)	**SKILL AREA:** Performing Control functions (As identified in the Incident Action Plan)			
6.	**Given a 55 gal (208-L) drum demonstrate the ability to patch or control the leak using the following methods**: **Select 1 of the methods and circle selection:**				
	a. Bung leak	☐	☐	☐	☐
	b. Chime leak	☐	☐	☐	☐
	c. Forklift puncture	☐	☐	☐	☐
	d. Nail puncture	☐	☐	☐	☐
7.	**Given a 55 gal (208-L) drum and an over-pack drum,, demonstrate the ability to place the 55 gal (208-L) drum into the over-pack drum using the following methods: Select 1 of the methods and circle selection:**				
	a. Rolling slide in	☐	☐	☐	☐
	b. Slide in	☐	☐	☐	☐
	c. Slip-over	☐	☐	☐	☐
8.	**Given an MC-306/DOT-406 cargo tank and dome cover clamp:**				
	a. Demonstrate the ability to install the clamp on the dome**.**	☐	☐	☐	☐
9.	Decontaminating tools and equipment	☐	☐	☐	☐
10.	Inspecting and maintaining tools and equipment	☐	☐	☐	☐
11.	Requirements for reporting and documenting product control operations	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐
Candidate Stop Safety: Yes ☐	**Equipment Stop Safety: Yes** ☐				

Evaluator/Candidate Comments _____

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HAZARDOUS MATERIALS TECHNICIAN

Candidate Name _____ **Skill Sheet** 13

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.4.3(3)	**SKILL AREA:** Over packing Non-Bulk and Radioactive Materials

TASK: Over-pack damaged or leaking non-bulk and radioactive materials containers at a hazardous materials/WMD incident.

CONDITIONS: Given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis; a loaded damaged or leaking container; a suitable over-pack container; policies and procedures; using available survey and monitoring equipment and PPE, shall determine if the integrity of any container has been breached, so that an approved over-pack technique is selected.

PERFORMANCE OUTCOME: Ensure the damaged or leaking container is placed into a suitable over-pack and the over-pack is closed, marked, and labeled; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; emergency responders, tools, and equipment are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented:

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Selects and uses approved PPE/SCBA	☐	☐	☐	☐
2.	Surveys the area and situation surrounding radioactive container breach	☐	☐	☐	☐
3.	Uses appropriate monitoring equipment to survey area and container	☐	☐	☐	☐
4.	Determines integrity of container	☐	☐	☐	☐
5.	Determines a breach has occurred	☐	☐	☐	☐
6.	Placing a damaged or leaking non-bulk materials container into the over-pack container	☐	☐	☐	☐
7.	Placing a damaged or leaking radioactive materials container into an over-pack container	☐	☐	☐	☐
8.	Following safety procedures, minimizing and avoiding hazards	☐	☐	☐	☐
9.	Decontaminating tools and equipment	☐	☐	☐	☐
10.	Inspecting, maintaining tools and equipment	☐	☐	☐	☐
11.	Completing all requirements for reporting and documenting product control operations	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐	**Equipment Stop Safety: Yes** ☐

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HAZARDOUS MATERIALS TECHNICIAN

Candidate Name _____ **Skill Sheet** 14

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.4.3(4)	**SKILL AREA:** Liquid Product Transfer

TASK: Transfer liquids from leaking non-pressure containers at a hazardous materials/WMD incident:

CONDITIONS: Given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis; a leaking non-pressure container and a recovery container; policies and procedures for transferring liquids from leaking non-pressure containers; and approved tools, equipment, and PPE:

PERFORMANCE OUTCOME: Ensure approved product transfer method is selected and used; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; hazard monitoring is completed; the containers are bonded and grounded; product is transferred to the recovery container; emergency responders, tools, and equipment used are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented:

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Selects and uses approved PPE/SCBA	☐	☐	☐	☐
2.	Identifies a compatible recovery container and transfer equipment	☐	☐	☐	☐
3.	Monitors for hazards	☐	☐	☐	☐
4.	Ensure grounding and bonding of containers has been completed	☐	☐	☐	☐
5.	Transfers liquid product from a leaking container to a recovery container	☐	☐	☐	☐
6.	Suppress vapors	☐	☐	☐	☐
7.	Decontaminate all tools, equipment and PPE/SCBA	☐	☐	☐	☐
8.	Inspect and maintain tools and equipment as required by manufacture and AHJ	☐	☐	☐	☐
9.	Complete all reports and supporting documentation for product control operations	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐	**Equipment Stop Safety: Yes** ☐

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HAZARDOUS MATERIALS TECHNICIAN

Candidate Name _____ **Skill Sheet** 15

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.3.3 & 7.4.4(1)	**SKILL AREA:** Mass Decontamination

TASK: Perform mass decontamination for ambulatory and non-ambulatory victims at a hazardous materials/WMD incident:

CONDITIONS: Given a hazardous materials/WMD incident requiring mass decontamination; an assignment in an IAP; results of the incident analysis; policies and procedures; and approved PPE, tools, and equipment, so that PPE is selected and used; a mass decontamination procedure is selected, set up, implemented, evaluated, and terminated:

PERFORMANCE OUTCOME: Ensure victims are decontaminated; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; personnel, tools, and equipment are decontaminated; and mass decontamination operations are reported and documented:

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Selecting decontamination procedures (operations and methods) and identifying the equipment required to implement decontamination procedure (operations and methods)	☐	☐	☐	☐
2.	Selects and uses suitable PPE/SCBA	☐	☐	☐	☐
3.	Selecting a mass decontamination procedure to minimize the hazard	☐	☐	☐	☐
4.	Setting up and implementing mass decontamination operations: **Note: Evaluator select ambulatory or non-ambulatory for testing**				
5.	**Ambulatory Victims**				
	a. Wears appropriate protective clothing properly	☐	☐	☐	☐
	b. Verbalizes need for emergency decontamination	☐	☐	☐	☐
	c. Directs victim from contamination area	☐	☐	☐	☐
	d. Removes victim's clothing as rapidly as possible	☐	☐	☐	☐
	e. Wash exposed body parts immediately – flooding quantities of water	☐	☐	☐	☐
	f. Performs head-to-toe, gross, wash, and rinse	☐	☐	☐	☐
	g. Establish water run off control if possible	☐	☐	☐	☐
	h. Transfer victim to EMS for assessment and treatment	☐	☐	☐	☐
	i. Inform EMS personnel of contaminant involved	☐	☐	☐	☐
	j. Document activity log	☐	☐	☐	☐
	Non-Ambulatory Victims				
	a. Wears appropriate protective clothing properly	☐	☐	☐	☐
	b. Verbalizes need for emergency decontamination	☐	☐	☐	☐
	c. Removes victim to the emergency decontamination area	☐	☐	☐	☐

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HAZARDOUS MATERIALS TECHNICIAN

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.3.3 & 7.4.4(1)	**SKILL AREA:** Mass Decontamination			
	d. Ensures victim is secure on roof ladder, stokes basket, skid or other device	☐	☐	☐	☐
	e. Wash from head to toe; gross, wash, rinse	☐	☐	☐	☐
	f. Removes contaminated clothing while ensuring, where practical, that the victim does not come in further contact with any contaminants	☐	☐	☐	☐
	g. Establish water run off control if possible	☐	☐	☐	☐
	h. Instructs responders to move victim to clean area	☐	☐	☐	☐
	i. Informs EMS personnel of contaminant, and its hazards if known	☐	☐	☐	☐
	j. Documents activity log	☐	☐	☐	☐
6.	Evaluate the effectiveness of the mass decontamination process	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐
Candidate Stop Safety: Yes ☐	**Equipment Stop Safety: Yes** ☐				

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HAZARDOUS MATERIALS TECHNICIAN

Candidate Name _____ **Skill Sheet** 16

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.4.4.2	**SKILL AREA:** Technical Decontamination

TASK: Establish and implement technical decontamination in support of entry operations and for ambulatory and non-ambulatory victims at a hazardous materials/WMD incident.

CONDITIONS: Given a hazardous materials/WMD incident requiring technical decontamination; an assignment in an IAP; results of the incident analysis; policies and procedures; and approved PPE, tools, and equipment, so that approved PPE is selected and used; a technical decontamination procedure is selected, set up, implemented, evaluated, and terminated:

PERFORMANCE OUTCOME: Ensure victims are decontaminated; safety procedures are followed; hazards are avoided or minimized; if contaminated, personnel, tools, and equipment are decontaminated; and all reports and documentation of technical decontamination operations are completed.

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select and use PPE/SCBA	☐	☐	☐	☐
2.	Select a technical decontamination procedure to minimize the hazard	☐	☐	☐	☐
3.	Set up and implement technical decontamination operations	☐	☐	☐	☐
4.	Evaluate the effectiveness of the technical decontamination procedure	☐	☐	☐	☐
5.	Completing required reports and supporting documentation for technical decontamination operations.	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐ **Equipment Stop Safety: Yes** ☐

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HAZARDOUS MATERIALS TECHNICIAN

Candidate Name _____ **Skill Sheet** 17

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.5.1	**SKILL AREA:** Evaluating and Reporting Progress

TASK: Evaluate and report the progress of assigned tasks at a hazardous materials/WMD incident:

CONDITIONS: Given a hazardous materials/WMD incident, an assignment in an IAP, current incident conditions, response options and actions taken, and approved communication equipment.

PERFORMANCE OUTCOME: Ensure the actual behavior of material and container is compared to that of what was predicted, the effectiveness of response options and actions in accomplishing response objectives is determined, modifications to the response options and actions are made, and the results are communicated.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Compare predicted behavior of the material and its container to the actual behavior	☐	☐	☐	☐
2.	Communicating the status of response options and actions	☐	☐	☐	☐
3.	Identifies incident action plan objectives for controlling functions at the incident	☐	☐	☐	☐
4.	Modifying the response options and actions based on the incident status review	☐	☐	☐	☐
5.	Identifies incident action plan objectives for decontamination procedures at the incident	☐	☐	☐	☐
6.	Evaluates the effectiveness of any controlling functions identified in the incident action plan	☐	☐	☐	☐
7.	Evaluates the effectiveness of any decontamination procedures identified in the incident action plan	☐	☐	☐	☐
8.	Recommends improvements or changes to product controlling functions as needed	☐	☐	☐	☐
9.	Recommends improvements or changes to decontamination procedure as needed	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐ **Equipment Stop Safety: Yes** ☐

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Candidate Name _____ **Skill Sheet** 18

IFSAC ID _____ **Date** _____

NFPA STANDARD: 1072, 2017 Edition	**JPR:** 7.6.3	**SKILL AREA:** Terminating the Incident (Reporting and documenting the Incident)

TASK: Terminate a hazardous materials/WMD incident:

CONDITIONS: Given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, operational observations of response operations (incident information), and approved forms for documentation and reporting:

PERFORMANCE OUTCOME: Candidate shall ensure that assistance in scheduled incident debriefings and critiques is provided, and incident operations are reported and documented:

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the reports and supporting documentation required by the emergency response plan, standard operating procedures, local, state and federal agencies	☐	☐	☐	☐
2.	Communicating operational observations (incident information) at debriefings and critiques	☐	☐	☐	☐
3.	Completing, forwarding, and filing all required reports, records, and supporting documentation	☐	☐	☐	☐
Overall Skill Sheet Score		☐	☐	☐	☐

Candidate Stop Safety: Yes ☐ **Equipment Stop Safety: Yes** ☐

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