

Hazardous Materials Operations

PRACTICE SHEETS



The following skills sheets are meant to be printed double-sided. This allows the candidate to view the instructions and description without viewing the steps.

Practice sheets only; excludes scenarios and equipment.



Hazardous Materials Operations

Determine incident status

Skill Sheet 1

Standard: 5.6.1 NFPA 1072, 2017 edition		Task: Implement the response to a HM/WMD incident, determine and communicate the status of the incident.			
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Acknowledge the task assignment to evaluator.				
2.	Take command and initiate the ICS system.				
3.	Establish scene control procedures and zones.				
4.	Establish response objectives.				
5.	Inspect and select appropriate PPE for associated hazard prior to initiating IAP.				
6.	Preserve evidence where criminal or terrorist acts are suspected.				
7.	Make proper notifications and status of assigned tasks utilizing approved communications tools and equipment according to SOP's and the State Plan.				
8.	Determine whether response objectives are being accomplished.				
9.	Terminate the incident by completing the reports and documentation including PPE used.				
10.	Notify evaluator when task is complete.				
	Did candidate complete skill swiftly, safely, and with confidence?				



Hazardous Materials Operations

Identify containers and materials

Skill Sheet 2

Standard: 5.2.1 NFPA 1072, 2017 edition		Task: Identifying hazardous materials, containers, and pipeline markings.			
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Acknowledge the task assignment to Evaluator.				
2.	State the required equipment needed (Full PPE, ERG, Binoculars).				
3.	Identify from pictures provided 4 container types.				
4.	(Show Candidate the 4 pictures provided and have the candidate identify all 4 types. Then evaluator selects one from this list to complete skill sheet). A. B. C. D.				
5.	Utilizing an ERG, SDS, or shipping papers, identify the materials involved in the incident and potential hazards.				
6.	Describe likely behavior of the Hazardous Material/WMD.				
7.	Describe the likely harm and outcomes associated with that behavior and current conditions.				
8.	Communicate with carriers, or pipeline operators the hazards and status of the incident.				
9.	Notify evaluator task is complete.				
	Did candidate complete skill swiftly, safely, and with confidence?				



Hazardous Materials Operations

Emergency decontamination

Skill Sheet 3

Standard: 5.3.1. 5.5.1 NFPA 1072, 2017 edition		Task: Correctly perform emergency decontamination of a victim.			
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Acknowledge the task assignment to evaluator.				
2.	Establish a safe area and select the appropriate method of emergency decon to minimize and avoid the hazard.				
3.	Inspect and select appropriate PPE for associated hazard prior to beginning decon.				
4.	Stay clear of the product, and do not make physical contact with it when possible.				
5.	Make an effort to contain runoff by directing victims out of the hazard zone and into a suitable location for decontamination.				
6.	Perform gross decon as necessary.				
7.	Instruct and/or assist victims in removing contaminated clothing.				
8.	Rinse victims with copious amounts of water. Avoid using water that is too warm or too cold; room-temperature water is best.				
9.	Provide or obtain medical treatment for victims and arrange for their transport.				
10.	Complete reports and documentation as required by AHJ.				
11.	Notify evaluator when task is complete.				
	Did candidate complete skill swiftly, safely, and with confidence?				



Hazardous Materials Operations

Technical decontamination

Skill Sheet 4

Standard: 6.4.1 NFPA 1072, 2017 edition		Task: Perform technical decontamination on a responder.			
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Acknowledge the task assignment to evaluator.				
2.	Select the appropriate method of technical decon to minimize and avoid the hazard.				
3.	Inspect and select appropriate PPE for associated hazard prior to beginning technical decon.				
4.	Establish a safe area and set up and operate a technical decon operation.				
5.	Instruct responder to drop any tools and equipment into a tool drum or onto a designated tarp.				
6.	Perform gross decontamination, if necessary.				
7.	Perform technical decontamination. Wash and rinse the responder one to three times.				
8.	Remove outer hazardous materials-protective clothing.				
9.	Evaluate the effectiveness of the technical decon process.				
10.	Instruct the responder to proceed to the rehabilitation area for medical monitoring, rehydration, and personal decontamination shower.				
11.	Ensure tools, PPE and equipment are properly decontaminated.				
12.	Complete reports and documentation as required by AHJ.				
13.	Notify evaluator when task is complete.				
	Did candidate complete skill swiftly, safely, and with confidence?				



Hazardous Materials Operations

Mass decontamination—Ambulatory

Skill Sheet 5

Standards: 5.2.3 6.3.1 NFPA 1072, 2017 edition		Task: Correctly perform mass decontamination of multiple simulated ambulatory victims.			
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Acknowledge the task assignment to evaluator.				
2.	Select the appropriate method of mass decon to minimize and avoid the hazard.				
3.	Inspect and select appropriate PPE for associated hazard prior to beginning mass decon.				
4.	Establish a safe area and set up and operate a mass decon operation based on the number and type of apparatus, equipment and/or system available.				
5.	Direct victims out of the hazard zone and into the established mass decontamination area.				
6.	Instruct victims to remove their contaminated clothing and walk through the decontamination corridor.				
7.	Stay clear of the product, and do not make physical contact with it.				
8.	Flush the contaminated victims with water. (A water temperature of 70 °F (21 °C) is ideal but may not be possible. Try to avoid using water that is uncomfortably hot or cold.)				
9.	Evaluate the effectiveness of the mass decon process.				
10.	Direct the contaminated victims to the triage area for medical evaluation, which may include on-scene treatment and/or transport to an appropriate receiving hospital.				
11.	Ensure tools, PPE and equipment are properly decontaminated.				
12.	Complete reports and documentation as required by AHJ.				
13.	Notify evaluator when task is complete.				
	Did candidate complete skill swiftly, safely, and with confidence?				



Hazardous Materials Operations

Mass decontamination—Non-ambulatory

Skill Sheet 6

Standard: 6.3.1 NFPA 1072, 2017 edition		Task: Correctly perform mass decontamination of multiple simulated non-ambulatory victims.			
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Acknowledge the task assignment to evaluator.	Pass	Fail	Pass	Fail
2.	Select the appropriate method of mass decon to minimize and avoid the hazard.				
3.	Inspect and select appropriate PPE for associated hazard prior to beginning mass decon.				
4.	Establish a safe area and set up and operate a mass decon operation based on the number and type of apparatus, equipment and/or system available.				
5.	Transport victims out of the hazard zone and into the established mass decontamination area.				
6.	Remove the appropriate amount of the victim's clothing. Do not leave any clothing underneath the victim. (Medical trauma scissors are a helpful and rapid way to accomplish this step.)				
7.	Flush the contaminated victims with water. (A water temperature of 70 °F (22 °C) is ideal but may not be possible. Try to avoid using water that is uncomfortably hot or cold.) Make sure to rinse well under and around the straps that may be holding the victim to a backboard or other extrication device. Take care to avoid compromising the victim's airway with water during the process.				
8.	Evaluate the effectiveness of the mass decon process.				
9.	Move the decontaminated victims to the triage area for medical evaluation, which may include on-scene treatment and/or transport to an appropriate receiving hospital.				
10.	Stay clear of the product, and do not make physical contact with it when possible.				
11.	Ensure tools, PPE and equipment are properly decontaminated.				
12.	Complete reports and documentation as required by AHJ.				
13.	Notify evaluator when task is complete.				
	Did candidate complete skill swiftly, safely, and with confidence?				



Hazardous Materials Operations

Donning a level B protective ensemble

Skill Sheet 7

Standard: 6.2.1 NFPA 1072, 2017 edition		Task: Correctly don a Level B non-encapsulated chemical-protective clothing ensemble.			
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Acknowledge the task assignment to evaluator.				
2.	Conduct a pre-entry briefing and medical monitoring.				
3.	Select the appropriate PPE based on the contaminant, inspect PPE before donning, ensure it was stored correctly and has been maintained. (Grammatical correction)				
4.	Sit down, pull on the suit to waist level; pull on the chemical boots over the top of the chemical suit. Pull the suit boot covers over the tops of the boots.				
5.	Don the inner gloves.				
6.	With assistance, complete donning the suit by placing both your arms in the suit and pulling the suit over the shoulders.				
7.	Instruct the assistant to close the chemical suit by closing the zipper and sealing the splash flap.				
8.	Don the SCBA frame and SCBA face piece, open valve on bottle, but do not connect the regulator to the face piece.				
9.	With assistance, pull the hood over the head and SCBA face piece.				
10.	Place the helmet on the head.				
11.	Pull the outer gloves over or under the sleeves, depending on the situation.				
12.	Instruct the assistant to connect the regulator to the SCBA face piece and ensure that the air flow is working correctly.				
13.	Review hand signals and indicate that you are okay.				
14.	Notify evaluator task is complete.				
	Did candidate complete skill swiftly, safely, and with confidence?				



Hazardous Materials Operations

Doffing a level B protective ensemble

Skill Sheet 8

Standard: 6.2.1 NFPA 1072, 2017 edition		Task: Correctly doff a Level B non-encapsulated chemical-protective clothing ensemble.			
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Acknowledge the task assignment to evaluator.				
2.	Report to decon area for emergency and technical decon as needed.				
3.	Drop any tools and equipment into a tool drum or onto a designated tarp.				
4.	Go off air, Doff the SCBA frame. Keep the face piece in place while the SCBA frame is held or placed on the ground. (clarification)				
5.	Doff helmet.				
6.	Instruct the assistant to open the chemical splash flap and suit zipper.				
7.	Remove your hands from the outer gloves and arms from the sleeves and cross your arms in front inside the suit.				
8.	Instruct the assistant to begin at the head and roll the suit down and away until the suit is below waist level.				
9.	Sit down and instruct the assistant to complete rolling down the suit to the ankles. Step out of the outer boots and suit.				
10.	Doff the SCBA face piece.				
11.	Carefully peel off the inner gloves.				
12.	Report to the rehabilitation area for medical monitoring, rehydration, and personal decontamination shower.				
13.	Ensure all PPE is properly maintained and stored.				
14.	Complete reporting and documentation per AHJ policies and procedures noting any deficiencies.				
15.	Notify evaluator task is complete.				
	Did candidate complete skill swiftly, safely, and with confidence?				



Hazardous Materials Operations

Perform defensive actions

Skill Sheet 9

Standard: 6.6.1 NFPA 1072, 2017 edition		Task: Perform selected defensive actions.			
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Acknowledge the task assignment to evaluator.				
2.	Select and don the appropriate PPE based on the contaminant.				
3.	Damming/Diking/Diverting/Dilution/Absorption/Retention: <i>Evaluator chooses two of the listed methods.</i> A) Construct a retention. B) Construct a dike. C) Construct a diversion dam. D) Apply absorbent pads, booms, or other absorbent material. E) Demonstrate appropriate dilution procedure. F) Construct an overflow dam. G) Construct an underflow dam. H) Describe operating a remote shutoff valve on a cargo tank, intermodal tank or containers at fixed facilities.				
4.	Determine the status and effectiveness of defensive actions taken to accomplish the response objective.				
5.	Communicate that status to the Incident Commander through the chain of command.				
6.	Notify evaluator task is complete.				
	Did candidate complete skill swiftly, safely, and with confidence?				



Hazardous Materials Operations

Vapor dispersion

Skill Sheet 10

Standard: 6.6.1 NFPA 1072, 2017 edition		Task: Correctly utilize vapor dispersion as a product control solution.			
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Acknowledge the task assignment to evaluator.				
2.	Select and don the appropriate PPE based on the contaminant.				
3.	Based on the characteristics of the released material, the size of the release, and the topography, determine the viability of a dispersion operation.				
4.	Use the appropriate monitoring instrument, such as a combustible gas indicator, photo-ionization detector, or multi-gas meter, to determine the boundaries of a safe work area.				
5.	Ensure that ignition sources in the area have been removed or controlled.				
6.	Apply a water spray (from firefighting hose lines) from a distance to disperse vapors.				
7.	Monitor the environment and determine the status and effectiveness of defensive actions taken to accomplish the response objective.				
8.	Communicate that status to the Incident Commander through the chain of command.				
9.	Notify evaluator task is complete.				
	Did candidate complete skill swiftly, safely, and with confidence?				



Hazardous Materials Operations

Vapor suppression

Skill Sheet 11

Standard: 6.6.1 NFPA 1072, 2017 edition		Task: Correctly utilize foam for vapor suppression as a product control solution.			
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Acknowledge the task assignment to evaluator.				
2.	Select and don the appropriate PPE based on the contaminant.				
3.	Based on the characteristics of the released material, the size of the leak, and the topography, determine the viability of a vapor suppression operation.				
4.	Use the appropriate gas detection instrument to determine the boundaries of a safe work area.				
5.	Ensure that ignition sources in the area have been removed or safely controlled.				
6.	Apply appropriate type of foam from a safe distance to suppress vapors. (foam may be simulated with water only)				
7.	Have candidate demonstrate the following techniques of foam application: A. Rain-down B. Roll-in C. Bounce-off				
8.	Monitor and determine the status and effectiveness of defensive actions taken to accomplish the response objective.				
9.	Communicate that status to the Incident Commander through the chain of command.				
10.	Notify evaluator task is complete.				
	Did candidate complete skill swiftly, safely, and with confidence?				