

Hazardous Materials Awareness and Operations

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NFPA 1072

**Standard for Hazardous Materials Awareness and Operations,
Emergency Response Personnel Professional Qualifications**

2017 Edition

Hazardous Materials Awareness Responder Skill Sheets

NFPA 1072, Chapter 4	Task:	JPR Initial Certification Requirement: 100% of All JPRs Renewal JPR Requirement: 100% of All JPRs (Including all subsections)
1	Recognizing and Identifying Hazardous Materials/WMD incidents.	4.2.1, 4.2.1 (B)
2	Initiate protective actions at the scene of a Hazardous Materials/WMD incident	4.3.1, 4.3.1 (B) 4.4.1, 4.4.1 (B)

SKILL SHEET # 1
Recognize and Identify Hazardous Materials/WMD Incident

JPR: 4.2.1, 4.2.1(B) NFPA 1072, 2017 Edition	Tasks: Recognize and identify a Hazardous Materials/WMD incident.
Performance Outcome	Given a Hazardous Materials or WMD simulated incident, the candidate shall identify indicators of the problem and provide a scene size up and make the appropriate notifications.
Equipment Required: A hazardous materials scenario, approved reference resources, appropriate PPE, binoculars, ERG and SDS or shipping papers, pictures of placards, labels and NFPA 704 markings, container identification charts or other transportation markings. .	
Critical Skills are identified by a bold type “C”. Any critical skill that is not completed is considered a failure of the entire Skill Sheet.	
Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.	

STEPS FOR SKILL COMPLETION	<i>Initial</i>		<i>Retest</i>	
	Yes	No	Yes	No
1. State the required equipment needed (Full PPE, ERG, binoculars).				
2. Ensure uphill/upwind in a safe location.				
3. Obtain information from bystanders or those involved, if available.				
4. Provide an on scene size up.				
5. Verbalize indicators of a HM/WMD incident.				
C 6. Utilize an ERG and SDS or shipping papers, identify the materials involved in the incident and any potential hazards.				
7. Notify appropriate state/local agencies per AHJ SOPs.				
Total			Score needed to pass	6

Candidate Name	Candidate Signature	Date
Proctor Name	Proctor Signature	
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SKILL SHEET # 2
Protective Actions and Notifications

JPR: 4.3.1, 4.3.1 (B) 4.4.1, 4.4.1 (B) NFPA 1072, 2017 Edition	Task: Initiate protective actions at the scene of a Hazardous Materials/WMD incident.
Performance Outcome	Given a Hazardous Materials/WMD simulated incident you shall initiate protective actions, establish initial isolation distances and notify appropriate state and local agencies.
Equipment Required: Full PPE, binoculars, ERG and SDS or shipping papers, pictures of placards, labels, or NFPA 704 markings, container identification charts, or other transportation markings and attached worksheet.	
Critical Skills are identified by a bold type “C”. Any critical skill that is not completed is considered a failure of the entire Skill Sheet.	
Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.	

STEPS FOR SKILL COMPLETION	<i>Initial</i>		<i>Retest</i>	
	Yes	No	Yes	No
1. State the required equipment needed (Full PPE, ERG, binoculars).				
2. Ensure uphill/upwind in a safe location.				
C 3. Utilize an ERG and SDS, or shipping papers, determine initial protective actions and isolation distances.				
C 4. Isolate the area and deny entry.				
5. Direct exposed people to a predetermined location for decon and medical care.				
6. Notify appropriate state/local agencies per AHJ SOPs.				
C 7. Give a status update via a mobile or handheld radio.				
Total	Score needed to pass			6

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Hazmat Awareness Worksheet for Skill Sheet #2

JPR: 4.3.1, 4.3.1 (B) 4.4.1, 4.4.1 (B) NFPA 1072, 2017 Edition	Task: Initiate protective actions at the scene of a Hazardous Materials/WMD incident.
Performance Outcome	Given a Hazardous Materials/WMD simulated incident you shall initiate protective actions, establish initial isolation distances and notify appropriate state and local agencies.

EQUIPMENT REQUIRED: Department of Transportation Emergency Response Guidebook (ERG).

CONDITIONS: Proctor will identify the hazardous material for the candidate to complete the following task steps. Suggested chemicals are: anhydrous ammonia, chlorine, fluorine, hydrogen sulfide, sodium cyanide or hydrogen cyanide.

No.	Task Steps	
1	UN number:	
2	Small Spill/Release - Initial Isolation Distance:	
3	Large Spill Initial Isolation Distance:	
4	Protective Action Distance (Night):	
5	Guide Number:	
6	Identify the health hazards:	
7	Identify the fire hazards:	
8	Identify the protective clothing:	

Hazardous Materials Operations Responder Skill Sheets

NFPA 1072, Chapters 5 & 6	Task:	JPR Initial Certification Requirement: 100% of All JPRs Renewal JPR Requirement: 100% of All JPRs (Including all subsections)
1	Identify Potential Hazards	5.2.1, 5.2.1(B)
2	Identify Action Options for a Hazardous Material/WMD Incident	5.3.1, 5.3.1(B)
3	Action Plan Implementation	5.4.1, 5.4.1(B)
4	Emergency Decontamination	5.3.1, 5.3.1(B), 5.5.1, 5.5.1(B)
5	Progress Evaluation and Reporting	5.6.1, 5.6.1(B)
6	Personal Protective Equipment	6.2.1, 6.2.1(B)
7	Product Control	6.2.1, 6.2.1(B), 6.6.1, 6.6.1(B)

SKILL SHEET # 1
Identify Potential Hazards

JPR: 5.2.1, 5.2.1(B) NFPA 1072, 2017 Edition	Tasks: Identify potential hazards at a Hazardous Material/WMD incident.
Performance Outcome	Given a Hazardous Materials or WMD simulated incident, the candidate shall identify the scope of the problem, container types, materials, location of any release and surrounding conditions. The candidate will give a scene size up and make the appropriate notifications.
Equipment Required: A Hazardous Materials scenario, approved reference resources, appropriate PPE, binoculars, ERG and SDS or shipping papers, pictures of placards, labels and NFPA 704 markings, container identification charts or other transportation markings.	
Critical Skills are identified by a bold type “C”. Any critical skill that is not completed is considered a failure of the entire Skill Sheet.	
Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.	

STEPS FOR SKILL COMPLETION	<i>Initial</i>		<i>Retest</i>	
	Yes	No	Yes	No
1. Identify container types at a Hazardous Materials/WMD incident.				
C 2. Identify materials at a Hazardous Materials/WMD incident.				
3. Identify location of release at a Hazardous Materials/WMD incident.				
4. Identify surrounding conditions at a Hazardous Materials/WMD incident.				
5. Collect hazard information.				
6. Communicate with facility representatives, pipeline operators or carrier representatives.				
7. Describe the likely behavior of the Hazardous Materials or WMD and its container.				
Total	Score needed to pass			6

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SKILL SHEET # 2
Identify Action Options for a Hazardous Material/WMD Incident

JPR: 5.3.1, 5.3.1(B) NFPA 1072, 2017 Edition	Task: Identify the action options for a Hazardous Materials/WMD incident.			
Performance Outcome	The candidate will identify the action options for a Hazardous Materials/WMD incident so that response objectives are met and approved PPE is suitable for the incident conditions.			
Equipment Required: Hazardous Materials incident scenario, response assignment, policies and procedures, approved references and approved PPE.				
Critical Skills are identified by a bold type “C”. Any critical skill that is not completed is considered a failure of the entire Skill Sheet.				
Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.				
STEPS FOR SKILL COMPLETION	<i>Initial</i>		<i>Retest</i>	
	Yes	No	Yes	No
1. Identify response objectives and action options based on the scope of the problem and available resources.				
C 2. Identify and take safety precautions.				
3. Identify whether approved PPE is suitable for the incident conditions.				
4. Identify emergency decontamination needs based on the scope of the problem.				
Total	Score needed to pass			3

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SKILL SHEET # 3
Action Plan Implementation

JPR: 5.4.1, 5.4.1(B) NFPA 1072, 2017 Edition	Task: Action plan implementation.
Performance Outcome	The candidate shall establish and maintain scene control, recognize and preserve evidence, inspect, don, work in, go through decontamination and doff approved PPE. Conduct gross decontamination of personnel, tools, equipment and PPE in the field and clean, disinfect and inspect approved tools, equipment and PPE.
Equipment Required: Hazardous Material/WMD scenario, an assignment with limited potential of contact with hazardous material/WMD, policies and procedures, scope of problem, tools and approved PPE.	
Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.	
Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.	

STEPS FOR SKILL COMPLETION	<i>Initial</i>		<i>Retest</i>	
	Yes	No	Yes	No
1. Establish and maintain scene control.				
2. Recognize and preserve evidence.				
3. Choose, inspect, don, work in, and go through decontamination while wearing, and doffing approved PPE.				
4. Isolate contaminated tools, equipment, and PPE.				
5. Conduct gross decontamination of contaminated personnel, tools, equipment, and PPE in the field.				
6. Clean, disinfect, and inspect approved tools, equipment, and PPE.				
C 7. Protect exposures and personnel.				
8. Avoid or minimize hazards.				
Total	Score needed to pass			7

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SKILL SHEET #4
Emergency Decontamination

JPR: 5.3.1, 5.3.1(B), 5.5.1, 5.5.1(B) NFPA 1072, 2017 Edition	Task: Correctly perform emergency decontamination of a first responder.
Performance Outcome	Given a scenario you shall demonstrate the ability to correctly set up and perform emergency decontamination on a first responder in a safe area, utilize appropriate PPE, prevent or minimize the spread of contaminants and avoid hazards during emergency decon.
Equipment Required: Appropriate PPE, a designated emergency decon area, a selection of hand tools, a water source.	
Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.	
Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.	

STEPS FOR SKILL COMPLETION	<i>Initial</i>		<i>Retest</i>	
	Yes	No	Yes	No
1. Select an emergency decontamination method.				
C 2. Set up emergency decontamination in a safe area.				
3. Select proper PPE for the incident.				
4. Perform emergency decontamination.				
5. Prevent spread of contamination.				
6. Avoid hazards during emergency decontamination.				
7. Protect exposures and personnel.				
Total	Score needed to pass		6	

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Retest Proctor Name	Retest Proctor Signature	

SKILL SHEET # 5
Progress Evaluation and Reporting

JPR: 5.6.1, 5.6.1(B) NFPA 1072, 2017 Edition	Task: Evaluate and report the progress of the assigned tasks for a Hazardous Materials/WMD incident.			
Performance Outcome	The candidate shall evaluate and report the progress of the assigned tasks for a Hazardous Materials/WMD incident to evaluate the effectiveness of the IAP given and communicate status to their supervisor.			
Equipment Required: Hazardous Materials/WMD incident, an assignment, policies and procedures, status of assigned tasks and communication equipment.				
Critical Skills are identified by a bold type “C”. Any critical skill that is not completed is considered a failure of the entire Skill Sheet.				
Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.				
STEPS FOR SKILL COMPLETION	<i>Initial</i>		<i>Retest</i>	
	Yes	No	Yes	No
1. Determine incident status				
2. Determine whether the response objectives are being accomplished.				
C 3. Use approved communications equipment.				
4. Communicate the status of assigned tasks.				
Total			Score needed to pass	
			3	

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Proctor Name	Proctor Signature	
Retest Proctor Name	Retest Proctor Signature	

SKILL SHEET # 6
Personal Protective Equipment

JPR: 6.2.1, 6.2.1(B) NFPA 1072, 2017 Edition	Task: Correctly select, don, work in and doff approved PPE at a Hazardous Materials/WMD incident.
Performance Outcome	The candidate shall successfully select, inspect, don, work in, go through decontamination and doff approved PPE at a Hazardous Materials/WMD incident given a mission specific assignment in an IAP that requires use of PPE. The candidate shall ensure exposures and personnel are protected and hazards are avoided or minimized and documentation is completed.
Equipment Required: Mission specific assignment, scope of the problem, response objectives, policies and procedures.	
Critical Skills are identified by a bold type “C”. Any critical skill that is not completed is considered a failure of the entire Skill Sheet.	
Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.	

STEPS FOR SKILL COMPLETION	<i>Initial</i>		<i>Retest</i>	
	Yes	No	Yes	No
C 1. Select appropriate PPE for the assignment.				
2. Inspect and don PPE.				
3. Complete assigned task in PPE.				
4. Go through decontamination (emergency and technical).				
5. Doff PPE.				
6. Protect exposures and personnel.				
7. Store, maintain or dispose of PPE appropriately.				
8. Complete any reports and documentation per AHJ.				
Total	Score needed to pass		7	

Candidate Name Candidate Signature Date

Proctor Name Proctor Signature

Retest Proctor Name Retest Proctor Signature

SKILL SHEET # 7

Product Control

JPR: 6.6.1, 6.6.1(B) NFPA 1072, 2017 Edition	Task: Task: Given the appropriate tools and equipment, demonstrate how to perform the following defensive control activities: a. Absorption f. Diversion b. Adsorption g. Remote valve shut-off Retention c. Damming h. Retention d. Diking i. Vapor Dispersion e. Dilution j. Vapor Suppression
Performance Outcome	The candidate as a member of a team, will successfully demonstrate each skill identified within the checklist with at least 34 of 42 items completed correctly.

Equipment Required: Personal protective equipment, self-contained breathing apparatus (SCBA), shovels, rakes, absorbent materials, adsorbent materials, dirt, sand or hay, plastic sheeting, booms, water source, handlines, foam, short pieces of pipe for dams, remote shutoff valve on a cargo container or fixed facility (or simulation of), and a leaking container.

Critical Skills are identified by a bold type “C”. Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.

STEPS FOR SKILL COMPLETION	<i>Initial</i>		<i>Retest</i>	
	Yes	No	Yes	No
1. Absorption:				
a. Use common, available materials.				
b. Avoid contact with the hazardous material.				
c. Ensure drains do not become contaminated.				
d. Ensure Hazardous Material is absorbed into absorbent material.				
2. Adsorption				
a. Use common, available materials.				
b. Avoid contact with the Hazardous Material.				
c. Ensure drains do not become contaminated.				
d. Ensure Hazardous Material has adhered to medium.				
3. Damming: (Overflow and Underflow)				
a. Use common, available materials.				
b. Avoid contact with the Hazardous Material.				
c. Ensure dam is not breached.				
d. Ensure Hazardous Material does not enter drains or manholes.				
4. Diking				
a. Use common, available materials.				
b. Avoid contact with the Hazardous Material.				
c. Ensure dam is not breached.				
d. Form a “v” and a “circle” dike.				
e. Ensure Hazardous Material does not enter drains or manholes.				
5. Dilution				

a. Use common, available materials.				
b. Avoid contact with the Hazardous Material.				
c. Ensure the Hazardous Material is water soluble.				
d. Do NOT overflow retention pond of Hazardous Material.				
6. Diversion:				
a. Use common, available materials.				
b. Avoid contact with the Hazardous Material.				
c. Ensure Hazardous Material is diverted away from drains and waterways.				
7. Remote valve shut-off:				
a. Avoid contact with the Hazardous Material.				
b. Eliminate ignition sources, if applicable.				
c. Manipulate valve as instructed to control the flow of the product.				
8. Retention:				
a. Define the purpose of retention.				
b. Use common, available materials.				
c. Avoid contact with the Hazardous Material				
d. Ensure product captured product does not overflow retention area.				
9. Vapor Dispersion:				
a. Avoid contact with the Hazardous Material.				
b. Eliminate ignition sources, if applicable.				
c. Use water spray or fans to control dispersion.				
d. Move vapors away from threatened area.				
10. Vapor Suppression				
a. Identify appropriate and compatible foam				
b. Eliminate ignition sources, if applicable.				
c. Set nozzle to correct pattern (and GPM flow, if applicable).				
d. Use correct application method to effectively control vapors or fire (Banked Down, Roll On, Rain Down)				
Total			Score needed to pass	32

Candidate Name	Candidate Signature	Date
Proctor Name	Proctor Signature	
Retest Proctor Name	Retest Proctor Signature	