



HAZARDOUS MATERIALS OPERATIONS

5-1 CORE COMPETENCIES

Evaluation Sheet:

5-1.2.2 Analyze a Hazardous Materials/WMD Incident

5.1.2.2, 5.2.3

5-2.3 Predicting the Behavior of a Material and its Container

Candidate: _____

Date: _____

Birth Date _____

Mo Day Yr _____ **Last 4 digits of SS#:** _____

<p>STANDARD: 5.1.2.2 & 5.2.3 NFPA 472, 2008 edition</p>	<p>TASK: Given an incident involving a single known hazardous material/WMD, the first responder at the operational level shall identify containers and materials involved, determine if a release has occurred, evaluate surrounding conditions, and estimate potential harm. The first responder shall predict the likely behavior of the material and its container.</p>				
<p>PERFORMANCE OUTCOME: The candidate will interpret the hazard and response for a known hazardous material and its container.</p>					
<p>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, material safety data sheets (MSDS), CHEMTREC/CANUTEC/SETIQ, and shipper/manufacturer contracts.</p>					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the name(s) of hazardous chemicals and containers involved (from a safe distance upwind)				
2.	Locate chemicals in response resources provided (ERG)				
3.	Determine if structural firefighting equipment and SCBA provide appropriate protection for hazardous material involved				
4.	Determine potential hazards of materials involved				
5.	Evaluate surrounding conditions (isolate, deny access)				
6.	Predict likely behavior of hazardous material				
7.	Conduct risk/benefit analysis; determine associated risks and estimate potential harm				
8.	List response objectives based on information gathered				
RETEST APPROVED BY:		RETEST EVALUATOR:			

(continued on the next page)



HAZARDOUS MATERIALS OPERATIONS

5-1 CORE COMPETENCIES

Evaluation Sheet:

5-1.2.2 Analyze a Hazardous Materials/WMD Incident

5.1.2.2, 5.2.3

5-2.3 Predicting the Behavior of a Material and its Container *(continued)*

Evaluator/Candidate Comments: _____

Risks and Hazards: thermal, mechanical, or chemical stress, type of breach, release, dispersion pattern, length of contact, health and physical hazards, short term, medium term, long term, etc.

Evaluator (Print & Sign) **Date** **Candidate** **Date**

Re-Test Evaluator **Date** **Re-Test Candidate** **Date**



HAZARDOUS MATERIALS OPERATIONS

5-1 CORE COMPETENCIES – ANALYZING THE INCIDENT

Evaluation Sheet:

5-1.2.2 Surveying the Hazardous Materials/WMD Incidents

5.1.2.2, 5.2.1.2

5.2.1.2 Identify Container Markings

Candidate: _____

Date: _____

Birth Date _____

Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 5.1.2.2, 5.2.1.2 NFPA 472, 2008 edition	TASK: Given product numbers and markings and a variety of containers, the first responder will match the product with the proper container.
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PERFORMANCE OUTCOME: The candidate will correctly match the products with its proper container.

CONDITIONS: Given 3 chemical products, a North American Emergency Response Guidebook, and pictures of a variety of containers.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will properly match the 3 products with appropriate containers:				
1.	Product #1				
2.	Product #2				
3.	Product #3				

RETEST APPROVED BY: _____

RETEST EVALUATOR: _____

Evaluator/Candidate Comments: _____

Evaluator (Print & Sign) **Date** **Candidate** **Date**

Re-Test Evaluator **Date** **Re-Test Candidate** **Date**



HAZARDOUS MATERIALS OPERATIONS

5-1 CORE COMPETENCIES – ANALYZING THE INCIDENT

Evaluation Sheet:

5.1.2.2 Surveying the Hazardous Materials/WMD Incidents

5.1.2.2(3)(4), 5.5.2

5.5.2 Communicating the Status of the Planned Response

Candidate: _____

Date: _____

Birth Date _____

Mo Day Yr _____

Last 4 digits of SS#: _____

<p>STANDARD: 5.1.2.2(3)(4); 5.5.2 NFPA 472, 2008 edition</p>	<p>TASK: 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. Communicate the status of the planned response through the normal chain of command and notify the incident commander and other response personnel regarding critical emergency conditions.</p>				
<p>PERFORMANCE OUTCOME: The candidate will establish and enforce scene control procedures, establish means of evidence protection, work in an incident command system (ICS), and perform tasks assigned in the incident action plan.</p>					
<p>CONDITIONS: Given a scenario dealing with hazardous materials/WMD and critical emergency conditions, a North American Emergency Response Guidebook, an emergency response plan or SOP's, and an Incident Action Plan (IAP).</p>					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Work in an Incident Command System (ICS)				
2.	Perform tasks assigned in the Incident Action Plan (IAP) that are assigned by the Incident Commander				
3.	Establish scene control procedures (including control zones, emergency decontamination, and communications)				
4.	Enforce scene control procedures				
5.	Establish means of evidence protection where criminal or terrorist acts are suspected				
6.	Evaluate the status of the actions taken in accomplishing the response objectives				
7.	Communicate the status of the planned response through the normal chain of command				
8.	Notify the incident commander and other response personnel about critical emergency conditions at the incident				
RETEST APPROVED BY:		RETEST EVALUATOR:			

(continued on the next page)



HAZARDOUS MATERIALS OPERATIONS

- 5-1 CORE COMPETENCIES – ANALYZING THE INCIDENT**
- 5.1.2.2 Surveying the Hazardous Materials/WMD Incidents**
- 5.5.2 Communicating the Status of the Planned Response (*continued*)**

Evaluation Sheet:
5.1.2.2(3)(4), 5.5.2

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

5-2 CORE COMPETENCIES – ANALYZING THE INCIDENT
5-2.1 Surveying the Hazardous Materials/WMD Incidents

Evaluation Sheet:
5.2.1.1.2

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 5.2.1.1.2 NFPA 472, 2008 edition	TASK: Given diagrams or pictures of intermodal tanks, the first responder shall identify the following: 1) Non-pressure intermodal tank; 2) Pressure intermodal tank; 3a) Cryogenic intermodal tank; 3b) tube modules.				
PERFORMANCE OUTCOME: The candidate will correctly identify non-pressure and pressurized intermodal containers.					
CONDITIONS: Given diagrams or pictures of different types of intermodal containers.					
No.	TASK STEPS	FIRST TEST	RETEST		
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Non-pressure intermodal tanks				
2.	Pressurized intermodal tanks				
	Specialized intermodal tanks:				
3.	Cryogenic intermodal tank				
4.	Tube modules				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

5-2 CORE COMPETENCIES – ANALYZING THE INCIDENT
5.2.1.1.1 Surveying the Hazardous Materials/WMD Incident

Evaluation Sheet:
5.2.1.1.1

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 5.2.1.1.1 NFPA 472, 2008 edition	TASK: Given diagrams or pictures of different types of tank cars, the first responder will identify the four types of tank cars.				
PERFORMANCE OUTCOME: The candidate will identify these four types of tank cars: 1) Non-pressure tank car with expansion dome; 2) Non-pressure tank car without expansion dome; 3) Pressure tank car; 4) Cryogenic liquid tank car.					
CONDITIONS: Given diagrams or pictures of at least one of each type of tank car.					
No.	TASK STEPS	FIRST TEST	RETEST		
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Non-pressure tank cars with expansion domes				
2.	Non-pressure tank cars without expansion domes				
3.	Pressure tank cars				
4.	Cryogenic liquid tank cars				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

5-2 CORE COMPETENCIES – ANALYZING THE INCIDENT
5.2.1.1.2 Surveying the Hazardous Materials/WMD Incident

Evaluation Sheet:
5.2.1.2.2

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 5.2.1.2.2 NFPA 472, 2008 edition	TASK: Given diagrams or pictures of facility containers, the first responder shall match the product with the proper container.				
PERFORMANCE OUTCOME: The candidate will correctly identify all facility containers presented.					
CONDITIONS: Given 3 different chemical products, the current North American Emergency Response Guidebook, and pictures of a variety of containers.					
No.	TASK STEPS	FIRST TEST	RETEST		
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Product #1				
2.	Product #2				
3.	Product #3				
RETEST APPROVED BY:			RETEST EVALUATOR:		

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

5-2 CORE COMPETENCIES – ANALYZING THE INCIDENT
5.2.1.1.3 Surveying the Hazardous Materials/WMD Incident

Evaluation Sheet:
5.2.1.1.3

Candidate: _____

Date: _____

Birth Date

Mo Day Yr

Last 4 digits of SS#: _____

STANDARD: 5.2.1.1.3 NFPA 472, 2008 edition	TASK: Given diagrams or pictures of cargo tanks, the first responder shall identify the following: 1) Compressed gas tube trailers; 2) Corrosive liquid tanks; 3) Cryogenic liquid tanks; 4) Dry bulk cargo tanks; 5) High pressure tanks; 6) Low pressure chemical tanks; 7) Non-pressure liquid tanks.				
PERFORMANCE OUTCOME: The candidate will correctly identify all cargo tanks presented.					
CONDITIONS: Given at least one picture or diagram of each of these types of cargo tanks: 1) Compressed gas tube trailers; 2) Corrosive liquid tanks; 3) Cryogenic liquid tanks; 4) Dry bulk cargo tanks; 5) High pressure tanks; 6) Low pressure chemical tanks; 7) Non-pressure liquid tanks.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Compressed gas tube trailers				
2.	Corrosive liquid cargo tanks				
3.	Cryogenic liquid cargo tanks				
4.	Dry bulk cargo tanks				
5.	High pressure cargo tanks				
6.	Low pressure cargo tanks				
7.	Non-pressure liquid cargo tanks				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

5-2 CORE COMPETENCIES – ANALYZING THE INCIDENT
5.2.1.1.4 Surveying the Hazardous Materials/WMD Incident

Evaluation Sheet:
5.2.1.1.4

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 5.2.1.1.4 NFPA 472, 2008 edition	TASK: Given diagrams or pictures of storage tanks, the first responder shall identify the following: 1) Cryogenic liquid tank; 2) Non-pressure tank; 3) Pressure tank.				
PERFORMANCE OUTCOME: The candidate will correctly identify all tanks presented.					
CONDITIONS: Given at least one picture or diagram of each of these types of tanks: 1) Cryogenic liquid tank; 2) Non-pressure tank; 3) Pressure tank.					
No.	TASK STEPS	FIRST TEST	RETEST		
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Cryogenic liquid storage tank				
2.	Non-pressure storage tank				
3.	Pressure storage tank				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

5-2 CORE COMPETENCIES – ANALYZING THE INCIDENT
5.2.1.1.5 Surveying the Hazardous Materials/WMD Incident

Evaluation Sheet:
5.2.1.1.5

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 5.2.1.1.5 NFPA 472, 2008 edition	TASK: Given diagrams or pictures of non-bulk packages, the first responder shall identify the following: 1) Bags; 2) Carboys; 3) Cylinders; 4) Drums; 5) Dewar flask (cryogenic liquids).				
PERFORMANCE OUTCOME: The candidate will correctly identify all non-bulk packages presented.					
CONDITIONS: Given at least one picture or diagram of each of these types of non-bulk packages: 1) Bags; 2) Carboys; 3) Cylinders; 4) Drums; 5) Dewar flask (cryogenic liquids).					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Bags				
2.	Carboys				
3.	Cylinders				
4.	Drums				
5.	Dewar flask (cryogenic liquids)				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

5-2 CORE COMPETENCIES – ANALYZING THE INCIDENT
5-2.1.1.6 Surveying the Hazardous Materials/WMD Incident

Evaluation Sheet:
5.2.1.1.6

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 5.2.1.1.6 NFPA 472, 2008 edition	TASK: Given pictures or diagrams of radioactive material containers, the first responder shall identify the following: 1) Excepted; 2) Industrial; 3) Type A; 4) Type B; 5) Type C.				
PERFORMANCE OUTCOME: The candidate will correctly identify all radioactive material containers presented.					
CONDITIONS: Given at least one picture or diagram of each of these types of radioactive material containers: 1) Excepted; 2) Industrial; 3) Type A; 4) Type B; 5) Type C.					
No.	TASK STEPS	FIRST TEST	RETEST		
		Pass	Fail	Pass	Fail
	The candidate will correctly identify the following:				
1.	Excepted radioactive material containers				
2.	Industrial radioactive material containers				
3.	Type A radioactive material containers				
4.	Type B radioactive material containers				
5.	Type C radioactive material containers				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

5-2 CORE COMPETENCIES – ANALYZING THE INCIDENT
5-2.1.3.2 Surveying the Hazard Materials/WMD Incident

Evaluation Sheet:
5.2.1.3.2

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 5.2.1.3.2 NFPA 472, 2008 edition	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				
2.	The name of the hazard statement				
3.	The name of the pesticide				
4.	The EPA Registration Number				
5.	The name of the precautionary statement				
6.	The name of the signal word				
7.	Relay significance of the information gathered to evaluator				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments: _____

Evaluator (Print & Sign) **Date** **Candidate** **Date**

Re-Test Evaluator **Date** **Re-Test Candidate** **Date**



HAZARDOUS MATERIALS OPERATIONS

5-2 CORE COMPETENCIES – ANALYZING THE INCIDENT
5.2.2(2)(3) Collecting Hazard and Response Information

Evaluation Sheet:
5.2.2(2)(3)

Candidate: _____

Date: _____

Birth Date _____

Mo Day Yr _____

Last 4 digits of SS#: _____

<p>STANDARD: 5.2.2(2) and (3) NFPA 472, 2008 edition</p>	<p>TASK: Given a material safety data sheet, the first responder shall identify the following: 5.2.2(3)</p> <ul style="list-style-type: none"> 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; and <p>5.2.2 (2) (2) verbally identify 2 ways to obtain an MSDS in an emergency.</p>
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PERFORMANCE OUTCOME: The candidate will correctly give the following information from a material safety data sheet and verbally identify 2 ways to obtain an MSDS in an emergency.

CONDITIONS: Given a scenario involving Hazardous Materials or WMD, a material safety data sheet, 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)				
2.	Physical hazards of the chemical				
3.	Health hazards of the chemical				
4.	Signs and symptoms of exposure				
5.	Routes of entry to the body				
6.	Permissible exposure limits of the chemical (PEL/PEL-C, TLV/TWA, STEL, IDLH, LC50/LC50)				

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HAZARDOUS MATERIALS OPERATIONS

5-2 CORE COMPETENCIES – ANALYZING THE INCIDENT
5-2.2(2)(3) Collecting Hazard and Response Information (continued)

Evaluation Sheet:
5.2.2(2)(3)

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
7.	The responsible party contact				
8.	Precautions for safe handling (including hygiene practices, protective measures, and procedures for cleanup of spills or leaks)				
9.	Applicable control measures, including PPE				
10.	The emergency first aid procedures for the chemical				
11.	Two (2) ways to obtain an MSDS in an emergency				
RETEST APPROVED BY:			RETEST EVALUATOR:		

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

5-2 CORE COMPETENCIES – ANALYZING THE INCIDENT
5.2.4(2) Estimating the Potential Harm

Evaluation Sheet:
5.2.4(2)

Candidate: _____

Date: _____

Birth Date

Mo Day Yr

Last 4 digits of SS#: _____

STANDARD: 5.2.4(2) NFPA 472, 2008 edition		TASK: Given the dimensions of the endangered area and the surrounding conditions at a hazardous materials incident/WMD or radioactive materials incident, estimate the number and type of exposures within that endangered area.			
PERFORMANCE OUTCOME: The candidate will estimate the number and type of exposures.					
CONDITIONS: Given a scenario for a hazardous materials/WMD incident, a chemical name, a radioactive material name or WMD, a current North American Emergency Response Guidebook, and a local map.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine and record the location and size of endangered area				
2.	Determine the types of exposures present (people, environment, property)				
3.	Estimate the number of exposures				
4.	Determine protective action and evacuation distances				
5.	Describe prioritization of exposures				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

5-3 CORE COMPETENCIES – PLANNING THE RESPONSE

Evaluation Sheet:

5.3.2 Identifying Action Options

5.3.2, 6.2.4.1

6.2.4 IMPLEMENTING THE PLANNED RESPONSE

6.2.4.1 Using Protective Clothing and Respiratory Protection

Candidate: _____

Date: _____

Birth Date

Mo Day Yr _____

Last 4 digits of SS#: _____

STANDARD: 5.3.2, 6.2.4.1 NFPA 472, 2008 edition	TASK: Given the dimensions of the endangered area, the exposures, and the surrounding conditions at a hazardous materials/WMD incident, identify the potential harm and describe the prioritization of emergency medical care and removal of victim(s) from the hazard area relative to exposure and contamination concerns. The candidate will don and work in PPE.				
PERFORMANCE OUTCOME: The candidate, working in PPE, will identify potential harm and estimate potential outcome within endangered area. The candidate will demonstrate prioritization of emergency medical care and removal of victim(s).					
CONDITIONS: Given a chemical name requiring PPE, an Emergency Response Guidebook, conscious/non-ambulatory patient(s), PPE, and dimensions of endangered area.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the need for imminent peril rescue				
2.	Determine if specialized protective equipment needed for the incident				
3.	Properly don appropriate PPE required by incident				
4.	Approach and access victim to minimize exposure and avoid contact with material				
5.	Remove victim(s) to refuge inside exclusion zone using approved rescue and drags or carries				
6.	Provide verbal report to EMS personnel				
RETEST APPROVED BY: _____		RETEST EVALUATOR: _____			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

**5-4 CORE COMPETENCIES – IMPLEMENTING
THE PLANNED RESPONSE**

**Evaluation Sheet:
5.4.1A**

5.4.1 Establishing and Enforcing Scene Control

Candidate: _____
Birth Date _____
Mo Day Yr _____

Date: _____
Last 4 digits of SS#: _____

STANDARD: 5.4.1A NFPA 472, 2008 edition	TASK: Given the known hazardous material/WMD incident and conditions, the first responder shall determine the appropriate protective action for the hazardous material/WMD incident presented.				
PERFORMANCE OUTCOME: The candidate shall determine the appropriate protective action based on scenario given.					
CONDITIONS: Given a scenario involving known hazardous materials in a container with UN number or WMD incident, the current edition of the North American Emergency Response Guidebook, a vicinity area map, and the weather conditions.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Locate the materials in the response resources provided (ERG)				
2.	Determine potential hazards of materials involved				
	Based on the scenario, determine:				
3.	The appropriate evacuation area on the map; or				
4.	The necessity for sheltering in place				
RETEST APPROVED BY: _____		RETEST EVALUATOR: _____			

Evaluator/Candidate Comments: _____

Evaluator (Print & Sign) **Date** **Candidate** **Date**

Re-Test Evaluator **Date** **Re-Test Candidate** **Date**



HAZARDOUS MATERIALS OPERATIONS

- 5-4 CORE COMPETENCIES – IMPLEMENTING THE PLANNED RESPONSE**
5.4.1(4) Establishing and Enforcing Scene Control Procedures
5.1.2.2 Analyze a Hazardous Materials/WMD Incident

Evaluation Sheet:
5.4.1B, 5.1.2.2, 5.4.1(4)

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 5.4.1B, 5.1.2.2, 5.4.1(4) NFPA 472, 2008 edition	TASK: Emergency Decontamination/Firefighter. Demonstrate the ability to perform emergency decontamination while working in PPE. The first responder at the operational level shall identify how to establish and enforce scene control, including control zones, emergency decontamination, and communications.				
PERFORMANCE OUTCOME: The candidate at the operational level working in PPE shall be able to demonstrate the ability to perform emergency decontamination.					
CONDITIONS: Wearing SCBA/FULL PPE and given fire line tape, and given scenarios for facility and/or transportation hazardous materials/WMD incidents. Equipment needed: Personal protective equipment, self-contained breathing apparatus (SCBA), water supply hoses, brushes, containment area, product name, and North American Emergency Response Guidebook (ERG).					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Remove firefighter victim from contaminated area				
2.	Ensure victim is supplied with uncontaminated air or oxygen, ensuring air supply is maintained				
3.	Determine correct decontamination procedure				
4.	Remove helmet (if worn) and wash victim with flooding quantities of water (water is used only if decontamination procedure calls for it)				
5.	If victim is wearing SCBA, release the harness and remove SCBA, leaving face piece in place				
6.	Remove contaminated clothing and PPE while being flushed, ensuring no further contamination while continuing to wash				
7.	Remove victim to treatment area in support zone				
8.	Provide verbal report to EMS personnel, including contaminants involved				
9.	Self-decontamination of rescuer				
RETEST APPROVED BY:		RETEST EVALUATOR:			

(continued on the next page)



HAZARDOUS MATERIALS OPERATIONS

**5-4 CORE COMPETENCIES – IMPLEMENTING
 THE PLANNED RESPONSE**

**Evaluation Sheet:
 5.4.1B, 5.1.2.2, 5.4.1(4)**

- 5.4.1(4) Establishing and Enforcing Scene Control Procedures
- 5.1.2.2 Analyze a Hazardous Materials/WMD Incident (*continued*)

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

5-4 COMPETENCIES – IMPLEMENTING THE PLANNED RESPONSE
5-4.1 Establishing and Enforcing Scene Control Procedures

Evaluation Sheet:
5.4.1C

Candidate: _____

Date: _____

Birth Date

Mo Day Yr

Last 4 digits of SS#: _____

<p>STANDARD: 5.4.1C NFPA 472, 2008 edition</p>	<p>TASK: Emergency Decontamination/Contaminated Site worker. Demonstrate the ability to perform emergency decontamination. The first responder at the operational level, while working in PPE, shall identify how to establish and enforce scene control, including control zones, emergency decontamination, and communications.</p>				
<p>PERFORMANCE OUTCOME: The candidate at the operational level shall be able to demonstrate the ability to perform emergency decontamination while wearing full personal protective gear and SCBA.</p>					
<p>CONDITIONS: Given a simulated contaminated victim, a hose line, and a tarp, if needed.</p>					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Remove victim from area of high contamination to area of refuge				
2.	Initiate flush/strip/flush emergency field decontamination procedure (after proper verification of the correct decontamination procedure to use)				
3.	Remove contaminated clothing while washing victim with hose stream				
4.	Identify need for emergency care of victim				
5.	Direct victim to treatment area to be evaluated by EMS personnel				
6.	Self-decontamination of rescuer				
<p>RETEST APPROVED BY: _____</p>		<p>RETEST EVALUATOR: _____</p>			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

6.2.4 IMPLEMENTING THE PLANNED RESPONSE

Evaluation Sheet:

6.2.4.1 Using Protective Clothing and Respiratory Protection

6.2.4.1A, 6.2.5.1

6.2.5 TERMINATING THE INCIDENT

6.2.5.1 Reporting and Documenting the Incident

Candidate: _____

Date: _____

Birth Date

Mo Day Yr _____

Last 4 digits of SS#: _____

STANDARD: 6.2.4.1A, 6.2.5.1 NFPA 472, 2008 edition	TASK: Demonstrate the ability to don PPE with self-contained breathing apparatus (SCBA), work in, perform decontamination, and doff personal protective equipment provided by the authority having jurisdiction; identify and complete the reporting and documentation requirements consistent with the emergency response plan or SOP's regarding Personal Protective Equipment.				
PERFORMANCE OUTCOME: The candidate at the operational level shall be able to demonstrate the ability to don PPE, including self-contained breathing apparatus, work in a contaminated area, perform decontamination, and doff PPE and complete reporting requirements.					
CONDITIONS: Given SCBA, personal protective equipment, and decontamination materials, SOP's or emergency response plan according to the local jurisdiction.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Check air cylinder pressure, open cylinder valve, listen for operation of low air alarm, compare cylinder pressure with remote pressure gauge				
2.	Don SCBA, securing all straps in appropriate sequence				
3.	Don face piece, securing all straps in appropriate sequence; perform negative pressure check (seal) exhale to check exhalation valve operation				
4.	Attach regulator to face piece, or attach low pressure hose to regulator, initiate air flow, and perform positive pressure check (break face piece seal)				
5.	Activate and check PASS device				
6.	Hood and helmet in proper position (no skin showing), then don gloves				
7.	Work in contaminated area				
8.	Exit contaminated area				
9.	Perform technical decontamination and doff PPE Gross Decontamination Secondary Decontamination PPE Removal				
10.	Complete necessary documentation as required and place equipment in a ready state for reuse				
RETEST APPROVED BY:		RETEST EVALUATOR:			

(continued on the next page)



HAZARDOUS MATERIALS OPERATIONS

- 6.2.4 IMPLEMENTING THE PLANNED RESPONSE**
- 6.2.4.1 Using Protective Clothing and Respiratory Protection**
- 6.2.5 TERMINATING THE INCIDENT**
- 6.2.5.1 Reporting and Documenting the Incident (*continued*)**

Evaluation Sheet:
6.2.4.1A, 6.2.5.1

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

- 5-4 CORE COMPETENCIES – IMPLEMENTING
THE PLANNED RESPONSE**
- 5-4.4 Using Personal Protective Equipment**
- 6.2.4 IMPLEMENTING THE PLANNED RESPONSE**
- 6.2.4.1 Using Protective Clothing and Respiratory Protection**

**Evaluation Sheet:
5.4.4, 6.2.4.1B**

Candidate: _____ **Date:** _____

Birth Date _____ **Last 4 digits of SS#:** _____

Mo Day Yr _____

STANDARD: 5.4.4, 6.2.4.1B NFPA 472, 2008 edition	TASK: Demonstrate the ability to don, work in, and doff personal protective equipment provided by the authority having jurisdiction.				
PERFORMANCE OUTCOME: The candidate at the operational level shall be able to demonstrate the ability to doff self-contained breathing apparatus.					
CONDITIONS: Given SCBA and personal protective equipment properly donned.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Deactivate Positive Pressure, if required				
2.	Close cylinder fully				
3.	Bleed off excess air; close remaining valves				
4.	Disconnect face piece from regulator				
5.	Remove face piece and buckles/straps properly				
6.	Doff backpack and harness				
7.	Gently lower unit to ground or case				
RETEST APPROVED BY:			RETEST EVALUATOR:		

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

6.6 MISSION SPECIFIC COMPETENCIES – PRODUCT CONTROL
6.6.4.1 Performing Defensive Control Actions

Evaluation Sheet:
6.6.4.1A

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 6.6.4.1A NFPA 472, 2008 edition	TASK: Foam OPS using the type of firefighting foam or vapor suppressing agent and foam equipment furnished by the authority having jurisdiction; demonstrate the effective application of the firefighting foam(s) or vapor suppressing agent(s) on a spill or fire involving hazardous materials/WMD.				
PERFORMANCE OUTCOME: The candidate at the operational level, working in PPE, shall demonstrate defensive control actions set out in the plan.					
CONDITIONS: Wearing SCBA/full PPE and given a scenario, an attack line, a foam proportioning device, a selection of foam concentrate, and a water supply.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select the appropriate foam concentrate and appropriate nozzle for the given fuel and conditions				
2.	Prepare the foam concentrate for the given fuel and conditions				
3.	Assemble the foam proportioning device with the foam concentrate				
4.	Adjust the foam proportioning device based on the selected foam concentrate				
5.	Assemble, position, and prepare the hose line for fire attack				
6.	Assemble, position, and prepare personnel for fire attack				
7.	Charge the hose line so that it produces a properly proportioned foam fire stream				
RETEST APPROVED BY: _____		RETEST EVALUATOR: _____			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

6.6 MISSION SPECIFIC COMPETENCIES – PRODUCT CONTROL
6.6.4.1 Performing Control Options

Evaluation Sheet:
6.6.4.1B

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 6.6.4.1B NFPA 472, 2008 edition	TASK: Foam OPS using the type of firefighting foam or vapor suppressing agent and foam equipment furnished by the authority having jurisdiction; demonstrate the proper application of the firefighting foam(s) or vapor suppressing agent(s) on a spill or fire involving hazardous materials.				
PERFORMANCE OUTCOME: The candidate at the operational level shall demonstrate defensive control actions set out in the plan.					
CONDITIONS: Wearing SCBA/full PPE and given a live fire or simulated scenario and an assembled foam fire stream.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Prepare personnel, place attack line in position upwind, and check nozzle for proper production of foam solution				
2.	Coordinate the attack team's advancement toward the fire so that a smooth and safe approach is maintained. Choose one:				
	a. Apply a foam blanket over the fuel's surface by using the Roll-on Method				
	b. Apply a foam blanket over the fuel's surface by using the Bank-Down Method				
	c. Apply a foam blanket over the fuel's surface by using the Rain-Down Method				
3.	Prevent reignition by maintaining a foam blanket				
4.	Coordinate the attack team's retreat so that the hazard is faced until the entire team reaches a safe haven				
5.	Maintain the personal safety of all attack team members				
RETEST APPROVED BY: _____		RETEST EVALUATOR: _____			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

6.6 MISSION SPECIFIC COMPETENCIES – PRODUCT CONTROL
6.6.4.1 Performing Control Options

Evaluation Sheet:
6.6.4.1C

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 6.6.4.1C NFPA 472, 2008 edition	TASK: Foam OPS using the type of firefighting foam or vapor suppressing agent and foam equipment furnished by the authority having jurisdiction; demonstrate the proper application of the firefighting foam(s) or vapor suppressing agent(s) on a spill or fire involving hazardous material.				
PERFORMANCE OUTCOME: The candidate at the operational level shall demonstrate defensive control actions set out in the plan.					
CONDITIONS: Wearing SCBA/full PPE and given a live fire or simulated scenario and equipment for foam.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify percentage of foam concentrate to use; connect eductor to hose line				
2.	Place eductor in concentrate can				
3.	Select appropriate setting on eductor				
4.	Open nozzle; apply away from fire or spill until finished foam reaches nozzle				
5.	Apply finished foam, from front of fire/spill working foam blanket back onto fire/spill				
RETEST APPROVED BY: _____			RETEST EVALUATOR: _____		

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

6.6.4 MISSION SPECIFIC COMPETENCIES – IMPLEMENTING THE PLANNED RESPONSE

Evaluation Sheet:
6.6.4.1D

6.6.4.1 Performing Control Options

Candidate: _____

Date: _____

Birth Date _____

Mo Day Yr _____

Last 4 digits of SS#: _____

STANDARD: 6.6.4.1D NFPA 472, 2008 edition	TASK: Demonstrate how to perform the following defensive control activities: Absorption, Adsorption, Damming, Diking, Dilution, Diversion, Retention, Vapor Dispersion, and Remote valve shut-off.
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PERFORMANCE OUTCOME: The candidate at the operational level shall demonstrate defensive control actions set out in the plan.

CONDITIONS: Wearing SCBA/full PPE and given the appropriate tools and equipment (i.e., shovels, rakes, absorbent materials, dirt, sand or hay, plastic sheeting, and a leaking container).

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Damming/Diking/Absorption/Adsorption: Choose A, B, C, or D below:				
A.	Damming: Construct a retention pond Avoid contact with the hazardous material Ensure dam is not breached				
B.	Diking: Construct a "V" dike or circle dike Avoid contact with the hazardous material Ensure hazardous material does not enter drains or manholes				
C.	Absorption: Apply absorbent pads or booms to control the spilled material Avoid contact with hazardous material Ensure hazardous material is absorbed into absorbent material Maintain control of the absorbent materials and take appropriate steps for disposal				
D.	Adsorption: Apply the appropriate adsorbent material to control the spilled material Avoid contact with hazardous material Ensure adsorbent material has sufficiently adsorbed hazardous material Maintain control of the adsorbent materials and take appropriate steps for disposal				
	For A, B, C, or D chosen above:				
2.	Select and correctly utilize proper retention equipment				

RETEST APPROVED BY: _____	RETEST EVALUATOR: _____
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(continued on the next page)



HAZARDOUS MATERIALS OPERATIONS

**6.6.4 MISSION SPECIFIC COMPETENCIES – IMPLEMENTING
 THE PLANNED RESPONSE**

**Evaluation Sheet:
 6.6.4.1D**

6.6.4.1 Performing Control Options (*continued*)

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

6.6.4 MISSION SPECIFIC COMPETENCIES – IMPLEMENTING THE PLANNED RESPONSE

Evaluation Sheet:
6.6.4.1.E

6.6.4.1 Performing Control Options

Candidate: _____ **Date:** _____
Birth Date _____
Mo Day Yr _____ **Last 4 digits of SS#:** _____

STANDARD: 6.6.4.1E NFPA 472, 2008 edition	TASK: Demonstrate how to perform the following defensive control activities: Absorption, Damming, Diking, Dilution, Diversion, Retention, Vapor Dispersion , and Remote valve shut-off.				
PERFORMANCE OUTCOME: The candidate at the operational level shall demonstrate defensive control actions set out in the plan.					
CONDITIONS: Wearing SCBA/full PPE and given the appropriate tools and equipment (i.e., shovels, rakes, absorbent materials, dirt, sand or hay, plastic sheeting, and a leaking container).					
No.	TASK STEPS	FIRST TEST	RETEST		
		Pass	Fail	Pass	Fail
	Vapor Dispersion Techniques/Dilution/Retention/Diversion Methods Choose A, B, or C below:				
A.	Vapor Dispersion: Avoid contact with hazardous material Eliminate any potential ignition sources Use nozzle on fog setting to disperse simulated vapor Uses proper technique to move vapors away from endangered area				
B.	Dilution: Use hose line to apply water to dilute simulated chemical Avoid contact with hazardous material Ensure hazardous material is water soluble Do NOT overflow retention pond of hazardous material				
C.	Retention: Define the purpose of retention Avoid contact with the hazardous material Ensure product flow does not exceed retention area				
D.	Diversion: Avoid contact with hazardous material Ensure hazardous material is diverted away from drains and waterways Make sure the hazardous material does NOT breach the diversion				
	For A, B, C or D chosen above:				
2.	Select and correctly utilize proper retention equipment				
RETEST APPROVED BY:			RETEST EVALUATOR:		

(continued on the next page)



HAZARDOUS MATERIALS OPERATIONS

**6.6.4 MISSION SPECIFIC COMPETENCIES – IMPLEMENTING
 THE PLANNED RESPONSE**

**Evaluation Sheet:
 6.6.4.1.E**

6.6.4.1 Performing Control Options (*continued*)

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

6.6.4 MISSION SPECIFIC COMPETENCIES – IMPLEMENTING THE PLANNED RESPONSE

Evaluation Sheet:
6.6.4.1F

6.6.4.1 Performing Control Options

Candidate: _____ Date: _____
 Birth Date _____
 Mo Day Yr _____ Last 4 digits of SS#: _____

STANDARD: 6.6.4.1F NFPA 472, 2008 edition	TASK: Demonstrate how to perform the following defensive control activities for Remote valve shut-off.				
PERFORMANCE OUTCOME: The candidate at the operational level shall demonstrate the following defensive control actions: locate, identify, and describe the operation of the emergency remote shut-off device(s) at a fixed facility.					
CONDITIONS: Wearing SCBA/Full PPE and given the appropriate tools, equipment, a hazardous materials scenario at a fixed facility, a series of photos depicting a fixed facility, and its emergency remote shut-off device(s) or props depicting the shut-off device(s), the candidate shall:					
No.	TASK STEPS	FIRST TEST	RETEST		
		Pass	Fail	Pass	Fail
1.	Properly wear appropriate protective clothing				
2.	Identify and locate the emergency remote shut-off device(s) at the fixed facility				
3.	Operate or describe the operation of the emergency remote shut-off device properly				
4.	Notify the Incident Commander of the completed objective				
RETEST APPROVED BY:			RETEST EVALUATOR:		

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS OPERATIONS

6.6.3 MISSION SPECIFIC COMPETENCIES – PLANNING THE RESPONSE

Evaluation Sheet:

6.6.3.1 Identifying Control Options

6.6.3.1, 6.6.4.1G

6.6.4.1 Performing Control Options

Candidate: _____

Date: _____

Birth Date _____

Mo Day Yr _____ Last 4 digits of SS#: _____

STANDARD: 6.6.3.1, 6.6.4.1G NFPA 472, 2008 edition	TASK: Given an example of the following cargo tanks, the candidate shall identify the cargo tank and the location and use of the mechanical, hydraulic, and air emergency remote valve shut-off devices: 1) MC-306/DOT-406, 2) MC-331.				
PERFORMANCE OUTCOME: The candidate will identify the cargo tank and the location and use of the mechanical, hydraulic, and air emergency remote shut-off devices					
CONDITIONS: Given pictures or diagrams of MC-306/DOT-406 and MC-331 cargo tanks.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	The candidate shall correctly identify and describe the operation of the following:				
1.	MC-306/DOT-406 cargo tank				
2.	MC-306/DOT-406 remote emergency shut-off device valve				
3.	Correctly describe the operation of the emergency remote shut-off device				
	OR				
1.	MC-331 cargo tank				
2.	MC-331 remote emergency shut-off device valve				
3.	Correctly describe the operation of the emergency remote shut-off device				
RETEST APPROVED BY: _____		RETEST EVALUATOR: _____			

Evaluator/Candidate Comments: _____

Evaluator (Print & Sign) **Date** **Candidate** **Date**

Re-Test Evaluator **Date** **Re-Test Candidate** **Date**