



HAZARDOUS MATERIALS TECHNICIAN

7.1 CORE COMPETENCIES -ANALYZING THE INCIDENT
7.1.2.2 Analyze a Hazardous Materials/WMD Incident

Evaluation Sheet:
7.1.2.2
Skill Sheet: A

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

STANDARD: 7.1.2.2 NFPA 472, 2013 Edition	TASK: Analyze a hazardous material/WMD incident, to determine the complexity of the problem and potential outcomes by completing the following tasks:				
PERFORMANCE OUTCOME: The candidate will analyze a hazardous material/WMD incident to determine the scope of the problem and potential outcomes:					
CONDITIONS: Given a scenario involving known hazardous materials in a container, interpret the hazard and response information obtained from the current edition of the North American Emergency Response Guidebook, safety data sheet (SDS) or material safety data sheets (MSDS) CHEMTREC/CANUTEC/SETIQ, and/or shipper/manufacturer contracts.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Surveys the hazardous material/WMD incident to identify special containers involved, to identify or classify unknown materials, and to verify presence and concentration of hazardous materials through the use of monitoring equipment.				
2.	Collects and interprets hazard and response information from printed and technical resources, computer data bases and monitoring equipment				
3.	Describes type and extent of damage to containers				
4.	Predicts the likely behavior of released material and their containers when multiple materials are involved				
5.	Estimates size of endangered area using computer modeling, monitoring equipment or specialists in this field				
RETEST APPROVED BY: _____			RETEST EVALUATOR: _____		

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS TECHNICIAN

7.1 CORE COMPETENCIES - ANALYZING THE INCIDENT
7.1.2.2 Plan a response to a Hazardous Materials/WMD Incident

Evaluation Sheet:
7.1.2.2
Skill Sheet: B

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

STANDARD: 7.1.2.2 NFPA 472, 2013 Edition		TASK: Plan a response to a hazardous material/WMD incident, within the capabilities of available personnel, personal protective equipment, and control equipment by completing the following tasks:			
PERFORMANCE OUTCOME: The candidate will plan a response to a hazardous material/WMD incident to determine the scope of the problem and potential outcomes:					
CONDITIONS: Given a scenario involving known hazardous materials in a container, interpret the hazard and response information obtained from the current edition of the North American Emergency Response Guidebook, safety data sheet (SDS) or material safety data sheets (MSDS) CHEMTREC/CANUTEC/SETIQ, and/or shipper/manufacturer contracts.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Describes response objectives for hazardous material/WMD incident				
2.	Describes 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				
RETEST APPROVED BY:			RETEST EVALUATOR:		

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS TECHNICIAN

7.1 CORE COMPETENCIES – ANALYZING THE INCIDENT
7.1.2.2 Implement a planned response to a Hazardous Materials/WMD Incidents

Evaluation Sheet:
7.1.2.2
Skill Sheet: C

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

STANDARD: 57.1.2.2 NFPA 472, 2013 Edition		TASK: Implement the planned response for a hazardous materials/WMD incident to favorably change the outcomes consistent with standard operating procedures, site safety and control plan by completing the following tasks:			
PERFORMANCE OUTCOME: The candidate will establish and enforce scene control procedures, work in an incident command system (ICS), and perform tasks assigned in the incident action plan.					
CONDITIONS: Given a scenario involving known hazardous materials in a container, interpret the hazard and response information obtained from the current edition of the North American Emergency Response Guidebook, safety data sheet (SDS) or material safety data sheets (MSDS) CHEMTREC/CANUTEC/SETIQ, and/or shipper/manufacturer contracts.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	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, 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				
RETEST APPROVED BY:			RETEST EVALUATOR:		

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS TECHNICIAN

7.1 CORE COMPETENCIES – ANALYZING THE INCIDENT

Evaluation Sheet:

7.1.2.2 Evaluate Progress and terminate a planned response to Hazardous Materials/WMD Incidents

7.1.2.2

Skill Sheet: D

Candidate: _____
Birth Date _____
Mo Day Yr _____

Date: _____

Last 4 digits of SS#: _____

STANDARD: 7.1.2.2 NFPA 472, 2013 Edition	TASK: Evaluate progress and terminate a hazardous materials/WMD incident with the emergency response plan, standard operating procedures and control plan by completing the following tasks:				
PERFORMANCE OUTCOME: The candidate will establish and enforce scene control procedures, work in an incident command system (ICS), and perform all tasks assigned in the incident action plan.					
CONDITIONS: Given a scenario involving known hazardous materials in a container, interpret the hazard and response information obtained from the current edition of the North American Emergency Response Guidebook, safety data sheet (SDS) or material safety data sheets (MSDS) CHEMTREC/CANUTEC/SETIQ, and/or shipper/manufacturer contracts.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Evaluates effectiveness of the control functions				
2.	Evaluates effectiveness of the decontamination process				
3.	Assists in the incident debriefing				
4.	Assists in the incident AAR (After Action Review)				
5.	Provides reports and documentation of incident				
RETEST APPROVED BY: _____		RETEST EVALUATOR: _____			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS TECHNICIAN

7.2 CORE COMPETENCIES – ANALYZING THE INCIDENT
 7.2.1.3.5 Surveying Hazardous Materials/WMD Incidents

Evaluation Sheet:
 7.2.1.3.5

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

STANDARD: 7.2.1.3.5 NFPA 472, 2013 Edition	TASK: Given three hazardous materials—one of which is a solid, one a liquid, and one a gas and using equipment, test strips, and reagents provided by the AHJ as applicable, the candidate shall select the appropriate equipment and demonstrate the proper techniques to identify the hazards (corrosively, flammability, oxidation, potential, oxygen deficiency, radioactivity, toxicity, and pathogenicity)				
PERFORMANCE OUTCOME: The candidate shall select the appropriate equipment and demonstrate the proper techniques to identify or classify chemicals using monitoring equipment as required by the AHJ.					
CONDITIONS: Given a scenario involving a known solid, a liquid, and a gas in containers, interpret the hazard and response information obtained from the current edition of the North American Emergency Response Guidebook, safety data sheet (SDS) or material safety data sheets (MSDS) CHEMTREC/CANUTEC/SETIQ, and/or shipper/manufacturer contracts. NOTE: Evaluator shall choose 5 types of equipment, circle types used, with equipment provided by the AHJ.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Candidate shall select the appropriate equipment and demonstrate the proper techniques to identify or classify chemicals using monitoring equipment:				
a.	Carbon monoxide meter				
b.	Colorimetric tubes				
c.	Combustible gas indicator				
d.	Oxygen meter				
e.	Passive dosimeters				
f.	pH indicators and /or pH meters				
g.	Photoionization and flame ionization detectors				
h.	Radiation Detection instruments				
i.	Reagents				
j.	Test Strips				
k.	WMD detectors (chemical and biological)				

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HAZARDOUS MATERIALS TECHNICIAN

7.2 CORE COMPETENCIES – ANALYZING THE INCIDENT
7.2.1.3.5 Surveying Hazardous Materials/WMD Incidents (continued)

Evaluation Sheet:
7.2.1.3.5

1.	Other equipment provided by the AHJ : identify equipment used in space below				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS TECHNICIAN

7.2 CORE COMPETENCIES – ANALYZING THE INCIDENT
7.2.1.3.6 Surveying the Hazardous Materials/WMD Incident

Evaluation Sheet:
7.2.1.3.6

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

STANDARD: 7.2.1.3.6 NFPA 472, 2013 Edition	TASK: Given monitoring equipment, test strips, and reagents provided by the AHJ, the hazardous materials technician shall demonstrate the field maintenance and testing procedures for those items.				
PERFORMANCE OUTCOME: The hazardous materials technician shall demonstrate the field maintenance and testing procedures for the monitoring equipment, test strips, and reagents provided by the authority having jurisdiction.					
CONDITIONS: Given monitoring equipment, test strips, and reagents provided by the AHJ, the hazardous materials technician shall perform the following tasks:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Demonstrate proper field maintenance procedures				
	a) monitoring equipment				
	b) test strips				
	c) reagents				
2.	Demonstrate proper field testing procedures				
	a) monitoring equipment				
	b) test strips				
	c) reagents				
RETEST APPROVED BY: _____		RETEST EVALUATOR: _____			

Evaluator/Candidate Comments: _____

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

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



HAZARDOUS MATERIALS TECHNICIAN

7.2 CORE COMPETENCIES – ANALYZING THE INCIDENT
7.2.1.5 Surveying the Hazardous Materials/WMD Incident

Evaluation Sheet:
7.2.1.5

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

STANDARD: 7.2.1.5 NFPA 472, 2013 Edition		TASK: The hazardous materials technician shall demonstrate methods for collecting samples of the following:			
PERFORMANCE OUTCOME: The hazardous materials technician shall demonstrate methods of collecting samples.					
CONDITIONS: Given sample materials listed, the hazardous materials technician shall perform the following tasks:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Demonstrates appropriate method for collecting a gas based on product				
2.	Demonstrates appropriate method for collecting a liquid based on product				
3.	Demonstrates appropriate method for collecting a solid based on product				
RETEST APPROVED BY:			RETEST EVALUATOR:		

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS TECHNICIAN

7.2 CORE COMPETENCIES – ANALYZING THE INCIDENT
7.2.3.5 Surveying the Hazardous Materials/WMD Incident

Evaluation Sheet:
7.2.3.5

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

STANDARD: 7.2.3.5 NFPA 472, 2013 Edition		TASK: Given a scenario involving radioactive materials, the hazardous materials technician, using available survey and monitoring equipment, shall determine if the integrity of any container has been breached.			
PERFORMANCE OUTCOME: The hazardous materials technician, using available survey and monitoring equipment, shall determine if the integrity of any container has been breached.					
CONDITIONS: Given sample materials listed, the hazardous materials technician shall perform the following tasks:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Surveys area and situation surrounding radioactive container breach				
2.	Uses appropriate monitoring equipment to survey area and container				
3.	Determines integrity of container				
4.	Determines a breach has occurred				
RETEST APPROVED BY: _____			RETEST EVALUATOR: _____		

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS TECHNICIAN

7.2 CORE COMPETENCIES – IMPLEMENTING THE PLANNED RESPONSE
7.4.2 Using Protective Clothing and Respiratory Equipment

**Evaluation Sheet:
7.4.2**

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

STANDARD: 7.4.2 NFPA 472, 2013 Edition	TASK: The hazardous materials technician shall demonstrate the ability to don, work in, and doff liquid splash- protective, vapor- protective and chemical -protective clothing and any other specialized personal protective clothing, provided by the AHJ including respiratory protection and shall complete the following tasks:				
PERFORMANCE OUTCOME: The hazardous materials technician shall demonstrate the ability to don, work in, and doff protective clothing and respiratory equipment.					
CONDITIONS: Given the appropriate protective equipment and respiratory equipment , the hazardous materials technician shall perform the following tasks:					
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.	Demonstrate the ability to don, work in , and doff self-contained breathing apparatus in addition to any other respiratory protection provided by the AHJ				
4.	Demonstrate the ability to don, work in , and doff liquid splash- protective, vapor- protective and chemical -protective clothing in addition to any other specialized protective equipment provided by the AHJ				
RETEST APPROVED BY: _____		RETEST EVALUATOR: _____			

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS TECHNICIAN

7.4 CORE COMPETENCIES — IMPLEMENTING THE PLANNED RESPONSE
7.4.3 Performing Control functions Identified in Incident Action Plan

Evaluation Sheet:
7.4.3
Skill Sheet: A

Candidate: _____
Birth Date _____
Mo Day Yr _____

Date: _____

Last 4 digits of SS#: _____

STANDARD: 7.4.3 NFPA 472, 2013 Edition	TASK: Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall select tools, equipment, and materials for the control of hazardous materials/WMD incidents and identify the precautions for controlling releases from the packaging/containers and shall complete the following tasks:				
PERFORMANCE OUTCOME: The hazardous materials technician shall select the correct tools, equipment, and materials for the control of hazardous materials/WMD incidents:					
CONDITIONS: Given the appropriate protective equipment and respiratory equipment, the hazardous materials technician shall perform the following tasks: selections:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	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				
2.	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				

(Continued on next page)



HAZARDOUS MATERIALS TECHNICIAN

7.4 CORE COMPETENCIES — IMPLEMENTING THE PLANNED RESPONSE

Evaluation Sheet:

7.4.3 Performing Control functions Identified in Incident Action Plan

7.4.3

Skill Sheet: A

(continued)

RETEST APPROVED BY:	RETEST EVALUATOR:
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Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS TECHNICIAN

7.4 CORE COMPETENCIES — IMPLEMENTING THE PLANNED RESPONSE
7.4.3 Performing Control functions Identified in Incident Action Plan

Evaluation Sheet:
7.4.3
Skill Sheet: B

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

STANDARD: 7.4.3 NFPA 472, 2013 Edition	TASK: Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall select tools, equipment, and materials for the control of hazardous materials/WMD incidents and identify the precautions for controlling releases from the packaging/containers and shall complete the following tasks:				
PERFORMANCE OUTCOME: The hazardous materials technician shall select the correct tools, equipment, and materials for the control of hazardous materials/WMD incidents:					
CONDITIONS: Given the appropriate protective equipment and respiratory equipment, the hazardous materials technician shall perform the following tasks:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
4.	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.	Bung leak				
b.	Chime leak				
c.	Forklift puncture				
d.	Nail puncture				
4.	Given a 55 gal (208-L) drum and an overpack drum,, demonstrate the ability to place the 55 gal (208-L) drum into the overpack drum using the following methods: Select 1 of the methods and circle selection:				
a.	Rolling slide in				
b.	Slide in				
c.	Slip-over				
5.	Given an MC-306/DOT-406 cargo tank and dome cover clamp:				
a.	Demonstrate the ability to install the clamp on the dome.				
RETEST APPROVED BY: _____		RETEST EVALUATOR: _____			

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HAZARDOUS MATERIALS TECHNICIAN

7.4 CORE COMPETENCIES — IMPLEMENTING THE PLANNED RESPONSE
7.4.3 Performing Control functions Identified in Incident Action Plan

Evaluation Sheet:
7.4.3
Skill Sheet: B

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Evaluator/Candidate Comments: _____

Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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HAZARDOUS MATERIALS TECHNICIAN

7.4 CORE COMPETENCIES – IMPLEMENTING THE PLANNED RESPONSE
7.4.5 Performing Decontamination Operations Identified in the Incident Action Plan

**Evaluation Sheet:
7.4.5**

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

STANDARD: 7.4.5 NFPA 472, 2013 Edition		TASK: The hazardous materials technician shall demonstrate the ability to set up and implement the following types of decontamination operations:			
PERFORMANCE OUTCOME: The hazardous materials technician shall demonstrate the ability to set a decontamination station:					
CONDITIONS: Given the appropriate protective equipment and respiratory equipment, the hazardous materials technician shall perform one of the following tasks:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Technical Decontamination operations in support of entry operations				
2.	Technical Decontamination operations involving ambulatory victims				
3.	Technical Decontamination operations involving non-ambulatory victims				
4.	Mass Decontamination operations involving ambulatory and non-ambulatory victims				
RETEST APPROVED BY:			RETEST EVALUATOR:		

Evaluator/Candidate Comments: _____

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



HAZARDOUS MATERIALS TECHNICIAN

7.6 CORE COMPETENCIES –TERMINATING THE INCIDENT
7.6.3 Reporting and documenting the Incident

**Evaluation Sheet:
7.6.3**

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

STANDARD: 7.6.3 NFPA 472, 2013 Edition	TASK: Given a scenario involving a hazardous material/WMD incident, the hazardous materials technician shall complete reporting and documentation as required by the AHJ by completing the following tasks:				
PERFORMANCE OUTCOME: The hazardous materials technician shall demonstrate the ability to document the incident using all required forms by the AHJ, local, state and federal agencies.					
CONDITIONS: Given an scenario involving hazardous materials/WMD incident, the hazardous materials technician shall perform the following tasks:					
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.	Demonstrate completion of all reports and documentation as required by the AHJ.				
RETEST APPROVED BY: _____			RETEST EVALUATOR: _____		

Evaluator/Candidate Comments: _____

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