# Hazardous Materials

Technician

COMPETENCY REFRESHER CHECK-OFF

Adopted from:

NFPA 472 Competence of Responders to Hazardous Materials/ Weapons of Mass Destruction Incidents, 2013 Edition



OXY

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# **About this Competency Refresher Check-Off**

This Competency Refresher Check-Off was developed directly from the NFPA 472, Competency of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents, 2013 Edition and incorporated components from the Florida Field Operations Guide (FOG).

#### Introduction

This Refresher Check-off was developed by the Florida State Emergency Response Commission (SERC). SERC is made up of representatives from the hazardous materials industry, emergency responders, and civilian experts.

The SERC has developed these Hazardous Material Technician refresher standards for emergency personnel. Completion of these standards ensures that personnel responding to hazardous material incidents are prepared to protect life, property and themselves. In addition, they serve as an added proof of documented refresher assessment and training for emergency response personnel, the authority having Jurisdiction (A.H.J) under Florida Law, and the organization they represent as accepted best practice. Personnel functioning to these standards and competencies help make Florida a great place to live and do business while ensuring excellent response in the event of a Hazardous Material incident.

# **Completing the Task Book**

Periodically, as determined by the authority having jurisdiction (AHJ), a hazardous materials technician is expected to receive refresher training and demonstrate competencies required of their position. The competencies listed in this document are required under the NFPA 472 standard. Successful completion is confirmed by the assessor's signature at the end of each section.

To complete the process of re-certification the Fire Chief, CEO, or designee will assess the completed document and make the determination that the hazardous materials technician continues to meet the Technician requirements of the authority having jurisdiction (AHJ).

Hazardous Materials Technician has met all of the requirements set by the AH. and as identified by the NFPA 472 Consensus Standard.				
Fire Chief / CEO / or their Designee				
HazMat Responder/Student's Name	Date			

As the Fire Chief, CEO, or Designee, my signature is authorization that this

#### **HazMat Responder/Student's Signature**

To successfully be certified as a hazardous materials technician in the State of Florida, the responder must have completed Operation Level of training and be competent in that level of response. In addition the responder must have received 160 hours of additional training on the Technician level from a recognized hazardous materials technician course, complete the applicable competencies, and receive certification from their department's Fire Chief, CEO, or designee. Criteria for the Hazardous Materials Technician course can be found in Florida State Rule 69A-37.065 <u>Programs of Study and Vocational Courses</u>.

# **Documentation in the Competency Refresher Check-off**

**Assessor** – For each type of competency you must mark one of the criteria listed. The criteria include "Passed", "Remediation Required", or "Not Applicable to the Organization".

Any time an assessor selects "Remediation Required" or "Not Applicable to the Organization", there must be a remark defining the reason that these were selected.

The grading criteria are defined as follows.

**Passed** – Marking this selection means that the student successfully met the competency with no remediation needed.

**Remediation Required** – Marking this selection means that the technician was not successful in meeting the competency. This selection indicates that the technician will receive additional training in this area to bring them up to the level of "passed".

**Not Applicable to the Organization** – This selection is provided when the jurisdiction or agency does not recognize in their policies or standard operating procedures, does not have the

equipment for, or it is unnecessary based on jurisdictional need. No further action is required once this selection is marked.

**Sign-Off/Date** – The area provided after each competency is for the assessor to initial and provide a date of assessment. The assessor will record their name in the provided area at beginning of this guideline and provide an example to their initials for comparison.

Many of the knowledge based competencies in this document may be displayed by a student during lectures, in class table-top exercises, discussions, and testing. The instructor may signoff these competencies based on the overall knowledge of the student displayed during these classroom opportunities.

#### **Definition of a Hazardous Materials Technician**

The hazardous materials technician shall be that person who responds to hazardous materials/WMD incidents using a risk-based response process by which he or she analyzes a problem involving hazardous materials/WMD, selects applicable decontamination procedures, and controls a release using specialized protective clothing and control equipment.

# Section 1 – Analyzing the Incident

<u>7.2.1 Surveying Hazardous Materials/WMD Incidents.</u> Given examples of hazardous materials/WMD incidents, the hazardous materials technician shall identify containers involved and, given the necessary equipment, identify or classify unknown materials involved, verify the identity of the hazardous materials/WMD involved, and determine the concentration of hazardous materials, by completing the requirement of 7.2.1.1 through 7.2.1.5.

#### 7.2.1.1.1

Туре	Grading Criteria		
Given examples of the following <u>railroad cars</u> , identify the containers by name and specification and identify the typical contents by name and hazard class:	Passed	Remediated Required	Not Applicable to the Organization
Cryogenic Liquid tank Car			
Non-Pressure Tank Car			
Pneumatically Unloaded Hopper Cars			
Pressure Tank Cars			
Specialized Tube Module			

Assessor Remarks:	 	 

#### 7.2.1.1.2

Туре		Grading Criteria	a
Given examples of the following <u>Intermodal tanks</u> , identify the containers by name and specification and identify the typical contents by name and hazard class:	Passed	Remediated Required	Not Applicable to the Organization
IM - 101 portable tank			
IM-102 portable tank			
Pressure Intermodal Tank			
Specialized Cryogenic Intermodal Tank			
Specialized Tube Module			
Low-Pressure Chemical Tanks			
Non-pressure Liquid Tanks			

Assessor Remarks:	 	 	 

#### 7.2.1.1.3

Туре	Grading Criteria		
Given examples of the following <u>Cargo Tanks</u> , identify the containers by name and specification and identify the typical contents by name and hazard class:	Passed	Remediated Required	Not Applicable to the Organization
Compressed Gas Tube Trailers			
Corrosive Liquid Tanks			
Cryogenic Liquid Tanks			
Dry bulk Cargo Tanks			
High Pressure Tanks			
Low-Pressure Chemical Tanks			
Non-pressure Liquid Tanks			

Assessor Remarks:	 	 

#### 7.2.1.1.4

Туре	Grading Criteria		
Given examples of the following Facility Storage  Tanks, identify the containers by name and specification and identify the typical contents by name and hazard class:	Passed	Remediated Required	Not Applicable to the Organization
Cryogenic Liquid Tank			
Non-pressure Tank			
Pressure Tank			

Assessor Remarks:	 	 	

#### 7.2.1.1.5

Туре	Grading Criteria		
Given examples of the following <b>Non-Bulk Packaging</b> , identify the containers by name and specification and identify the typical contents by name and hazard class:	Passed	Remediated Required	Not Applicable to the Organization
Bags			
Carboys			
Cylinders			
Non-pressure Liquid Tanks			

Assessor Remarks: _	 	 	

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Туре	Grading Criteria			
Given examples of the following <u>Radioactive</u> <u>Materials Packages</u> , identify the containers by name and specification and identify the typical contents by name and hazard class:	Passed	Remediated Required	Not Applicable to the Organization	
Excepted				
Industrial				
Туре А				
Туре В				
Type C				

Туре С			
Assessor Remarks:			
7.2.1.1.7			
Туре		Grading Criteri	a
Given examples of <u>Intermediate Bulk Containers (IBC)</u>	Passed	Remediated Required	Not Applicable to the Organization
and <u>Ton Containers</u> , identify the packaging by name and identify the typical contents and hazard class.			
Assessor Remarks:			
7.2.4.2.6			
7.2.1.2 Given examples of <u>3 facility</u> and <u>3 transportation of the second identify the approximate capacity of each container.</u>	containers, the	nazardous materiais	technician shall
, ,		Cuadina Cuitani	
Туре		Grading Criteri	
Using an example of markings on a <u>Cargo Tank</u> , <u>Tank</u> <u>Car</u> , and a <u>Tank Container</u> transportation vehicle,	Passed	Remediated Required	Not Applicable to the Organization
identify the capacity (by weight or volume).			
Assessor Remarks:			

#### 7.2.1.2.2

Туре		Grading Criteria	a
Using the markings on a <u>Cryogenic Liquid Tank</u> , <u>Non-Pressure Tank</u> (general service or low-pressure), and <u>Pressure Tank</u> located in a facility the hazardous	Passed	Remediated Required	Not Applicable to the Organization
materials technician, using reference material, shall identify the capacity (by weight or volume) of each			

identify the capacity (by weight or volume) of each			
Assessor Remarks:			
7.2.1. 3			
Туре		Grading Criter	ia
Given at least three unknown hazardous materials/WMD, one of which is a solid, one a liquid, and one a gas, the hazardous materials technician shall identify or classify by hazard each unknown material.	Passed	Remediated Required	Not Applicable to the Organization
Unknown Solid			
Unknown Liquid			
Unknown Atmosphere			
7.2.1.3.3 The hazardous materials technician shall identify the following hazards:	the type(s) of i	monitoring technolo	gy used to determine
Туре		Grading Criteri	a
What type of monitoring technology is used to determine the following hazards?	Passed	Remediated Required	Not Applicable to the Organization
Corrosivity			
Flammability			
Oxidation Potential			
Oxygen Deficiency			
Pathogenicity			
Radioactivity			
Toxicity			
Assessor Remarks:			

7.2.1.3.4 The hazardous materials technician shall identify the <u>capabilities</u> and <u>limiting factors</u> associated with the selection and use of the following monitoring equipment, test strips, and reagents:

Туре	Grading Criteria			
Type of Monitoring Equipment	Passed	Remediated Required	Not Applicable to the Organization	
Biological immunoassay indicators				
Chemical Agent Monitors (CAM)				
Colorimetric indicators (detector tubes, pH paper and meters, reagent test strips				
Combustible Gas Indicators				
DNA Fluoroscopy				
Electrochemical cells (CO and Oxygen Meter)				
Flame Ionization Detector				
Gas Chromatograph/mass Spectrometer (GC/MS)				
Infrared spectroscopy				
Ion mobility spectroscopy				
Gamma Spectrometer (RIID)				
Metal Oxide Sensor				
Photoionization Detector				
Polymerase Chain Reaction (PCR)				
Radiation Detection and Measurement Instruments				
Raman Spectroscopy				
Surface Acoustical Wave (SAW)				
Wet Chemistry				

Assessor Remarks:	 	 	

7.2.1.3.5 Given 3 hazardous materials/WMD, one of which is a <u>solid</u>, one a <u>liquid</u>, and one a <u>gas</u>, and using equipment, test strips, and reagents, provided by the AHJ as applicable, the hazardous materials technician shall select from the following equipment and demonstrate the correct techniques to identify the hazards (corrosivity, flammability, oxidation potential, oxygen deficiency, radioactivity, toxicity, and pathogenicity).

Solid Sample	Corrosivity	Flammability	Oxidation Potential	Oxygen Deficiency	Toxicity	Pathogenicity
Carbon Monoxide Meter						
Colorimetric Tubes						
Combustible Gas						
Indicator						
Oxygen Meter						
Passive Dosimeter						
pH indicators and/or pH Meter						
Photoionization and						
Flame Ionization						
Detectors Detection						
Radiation Detection Instruments						
Reagents including Test						
Strips and WMD						
Detectors (Chemical and						
Biological)						
Other AHJ equipment						
Liquid Sample						
Carbon Monoxide Meter						
Colorimetric Tubes						
Combustible Gas Indicator						
Oxygen Meter						
Passive Dosimeter						
pH indicators and/or pH Meter						
Photoionization and Flame Ionization Detectors						
Radiation Detection Instruments						
Reagents including Test						
Strips and WMD						
Detectors (Chemical and						
Biological)						
Other AHJ equipment						
Instructor Rating	Passed	Remediate	d Required	Not Appl	icable to the	e Organization

Gas Sample	Corrosivity	Flammability	Oxidation Potential	Oxygen Deficiency	Toxicity	Pathogenicity
Carbon Monoxide Meter						
Colorimetric Tubes						
Combustible Gas Indicator						
Oxygen Meter						
Passive Dosimeter						
pH indicators and/or pH Meter						
Photoionization and Flame Ionization Detectors						
Radiation Detection Instruments						
Reagents including Test Strips and WMD Detectors (Chemical and Biological)						
Other AHJ equipment						
Instructor Rating	Passed	Remediate	d Required	Not Appl	icable to the	Organization

Assessor Remarks:	 	 	

#### 7.2.1.3.6

	Grading Criteria			
Criteria	Passed	Remediated	Not Applicable to	
	Passeu	Required	the Organization	
Given monitoring equipment, test strips, and				
reagents provided by AHJ, demonstrate field				
maintenance and testing procedures for each				

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#### 7.2.1.4

Criteria		Grading Criter	ia
Given a label for a radioactive material, identify, as		Remediated	Not Applicable to
applicable:	Passed	Required	the Organization
Category of label			
Contents			
Activity			
Transport Index			
Criticality Safety Index			
Describe Radiation Dose Rate			
7.2.1.5			
Criteria		<b>Grading Criter</b>	ia
Demonstrate methods for collecting samples of the following:	Passed	Remediated Required	Not Applicable to the Organization
Gas			
Liquid			

7.2.2 Collecting and Interpreting Hazard and Response Information. Given access to printed and technical resources, computer databases, and monitoring equipment, the hazardous materials technician shall collect and interpret hazard and response information not available from the current edition of the DOT *Emergency Response Guidebook* or an MSDS and shall meet the requirements of 7.2.2.1 through 7.2.2.6.

Assessor Remarks: \_\_\_\_\_

#### 7.2.2.1

Criteria	Grading Criteria			
Identify and interpret the types of hazard and response information available from each of the following resources and explain the advantages and disadvantages of each resource	Passed	Remediated Required	Not Applicable to the Organization	
Hazardous Materials Databases				
Monitoring Equipment				
Reference Manuals				
Technical Information Centers (i.e., CHEMTREC/CANUTEC/SETIQ and local, state, and federal authorities)				

<b>Assessor Remarks:</b>	 		

# 7.2.2.2

Criteria	Grading Criteria		a
Describe the following terms and explain their significance in the analysis process:	Passed	Remediated Required	Not Applicable to the Organization
Corrosive (acids and bases/alkaline)			
Air Reactivity			
Auto-refrigeration			
Biological agent and biological toxins			
Blood Agents			
Boiling Point			
Catalyst			
Chemical Change			
Chemical Interactions			
Compound, Mixture			
Concentration			
Critical Temperature and Pressure			
Dissociation (acid/base)			
Dose			
Dose Response			

Assessor Remarks:	 		

## 7.2.2.2 (Continued)

Criteria		Grading Criter	ia
Describe the following terms and explain their significance in the analysis process:	Passed	Remediated Required	Not Applicable to the Organization
Expansion Radio			
Fire Point			
Flammable (explosive) range (LEL and UEL)			
Flashpoint			
Half-life			
Halogenated Hydrocarbon			
Ignition (auto-ignition) Temperature			
Inhibitor			
Instability			
Ionic and Covalent Compounds			
Irritants (riot control agents)			
Maximum Safe Storage Temperature (MSST)			
Melting Point and Freezing Point			
Miscibility			
Nerve Agent			
Organic and Inorganic			
Oxidation Potential			
Persistence			
рН			
Physical Change			
Physical State (solid, liquid, gas)			
Polymerization			
Radioactivity			
Reactivity			
Riot Control Agents			
Saturated, Unsaturated (straight and branched), and Aromatic Hydrocarbons			
Self-accelerating Decomposition Temperature (SADT)			
Solubility			
Solution and slurry			
Specific Gravity			

Assessor Remarks: _	 	 	

7.2.2.2 (Continued)
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Criteria	Grading Criteria			
Describe the following terms and explain their significance in the analysis process:	Passed	Remediated Required	Not Applicable to the Organization	
Strength				
Sublimation				
Temperature of Product				
Toxic Products of Combustion				
Vapor Density				
Vapor Pressure				
Vesicants (blister agents)				
Viscosity				
Volatility				

Assessor Remarks: _	 		

#### 7.2.2.3

Criteria		Grading Criteri	a
Describe the heat transfer process that occur as a result of a cryogenic liquid spill	Passed	Remediated Required	Not Applicable to the Organization

<b>Assessor Remarks:</b>	 	 	

#### 7.2.2.4

Criteria	Grading Criteria		
Given 5 hazardous materials/WMD scenarios and associated reference materials identify:	Passed	Remediated Required	Not Applicable to the Organization
Signs and Symptoms of Exposure			
Target Organ Effects			

Assessor Remarks:	 	 	
	 	 	 _

#### 7.2.2.5

Criteria	Grading Criteria		
Identify 2 methods for determining the pressure in bulk packaging or facility containers	Passed	Remediated Required	Not Applicable to the Organization

bulk packaging or facility containers			
Assessor Remarks:			
7.2.2.6			
Criteria		Grading Criter	ia
Identify 1 method for determining the pressure in bulk packaging or facility containers amount of lading remaining in damaged bulk packaging or facility containers	Passed	Remediated Required	Not Applicable to the Organization
Assessor Remarks:			
7.2.3 Describe the Condition of the Container Involuded Amage, the hazardous materials technician shall requirements of 7.2.3.1 through 7.2.3.5. 7.2.3.1.1 The hazardous materials technician shall identiclosures, of the following bulk containers:  Criteria	describe the	damage by comp	leting the related
Criteria		Grading Criter	ia T
Identify the basic design and construction features, including closures for the following Cargo Tanks:	Passed	Remediated Required	Not Applicable to the Organization
Compressed Gas Tube Trailers			
Corrosive Liquid Tanks			
Dry Bulk Cargo Tanks			
High-Pressure Tanks			
Low-Pressure Tanks			
Non-Pressure Tanks			
Assessor Remarks:			

Criteria	Grading Criteria			
Identify the basic design and construction features, including closures for the following Fixed Facility Tanks:	Passed	Remediated Required	Not Applicable to the Organization	
Cryogenic Liquid Tanks				
Non-pressure Tanks				
Pressure Tanks				
Assessor Remarks:				
Criteria		Grading Criteri	a	
Identify the basic design and construction features, including closures for the following:	Passed	Remediated Required	Not Applicable to the Organization	
Intermediate Bulk Containers (also known as tote tanks)				
One-ton Containers (pressure drums)				
Pipelines				
Assessor Remarks:				
Criteria		Grading Criteri	a	
Identify the basic design and construction features, including closures for the following Intermodal Tanks:	Passed	Remediated Required	Not Applicable to the Organization	
Non-pressure Intermodal Tanks including IM-101 and IM - 102				
Pressure Intermodal Tanks				
Specialized Intermodal Tanks including Cryogenic Intermodal and Tube Modules				
Assessor Remarks:				

Grading Criteria			
Passed	Remediated	Not Applicable to the Organization	
	Required	the Organization	
_			
	Grading Criteri	a	
Passed	Remediated Required	Not Applicable to the Organization	
	<b>Grading Criteri</b>	a	
Passed	Remediated Required	Not Applicable to the Organization	
	Passed	Passed Remediated Required  Grading Criterian Remediated Required  Grading Criterian Remediated Required  Grading Criterian Remediated Required	

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	Grading Criteria		
Given an example of a pipeline, identify the following:	Passed	Remediated Required	Not Applicable to the Organization
Ownership of the line			
Procedures for checking for gas migration			
Procedure for shutting down the line or controlling the leak			
Type of product in the line			
Assessor Remarks:			
7.2.3.5			
Criteria		Grading Criter	ia
Given a scenario involving radioactive materials, the hazardous materials technician, using available	Passed	Remediated Required	Not Applicable to the Organization
survey and monitoring equipment, shall determine if the integrity of any container has been breached.			
	nd Their Cor	ntainer Where N	
are Involved. Given examples of hazardous mater materials or WMD, the hazardous materials techn in each case and meet the requirement of 7.2.4.1	erials/WMD ir ician shall pre	edict the likely be	•
are Involved. Given examples of hazardous maternals or WMD, the hazardous materials techning in each case and meet the requirement of 7.2.4.1	erials/WMD ir ician shall pre	edict the likely be . <u>3</u> .	havior of the mate
are Involved. Given examples of hazardous materials or WMD, the hazardous materials techn in each case and meet the requirement of 7.2.4.1  7.2.4.1  Criteria	erials/WMD ir ician shall pre through <u>7.2.4</u>	edict the likely be	havior of the mate
7.2.4 Predicting Likely Behavior of Materials a are Involved. Given examples of hazardous materials or WMD, the hazardous materials technin each case and meet the requirement of 7.2.4.1  7.2.4.1  Criteria  Identify at least 3 resources available that indicate the effects of mixing various hazardous materials.	erials/WMD ir ician shall pre	edict the likely be .3. Grading Criter	havior of the mate

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•	_	_	4	٠.	_

Criteria	Grading Criteria		
Identify the impact of fire and safety features (pressure relief, impounding, tank spacing, etc.) on the behavior of the products during an incident at a	Passed	Remediated Required	Not Applicable to the Organization
bulk <u>liquid</u> facility.			

bulk <u>liquid</u> facility.			
ssessor Remarks:			
Criteria		Grading Crite	ria
Identify the impact of fire and safety features (pressure relief, fire protection detection, etc.) on the behavior of the products during an incident at a	Passed	Remediated Required	Not Applicable to the Organization
<u>bulk gas</u> facility.	L		
Assessor Remarks:			
7.2.5 Estimating the Likely Size of an Endange materials/WMD incidents, the hazardous materia and concentrations associated with the release of	ls technician s	shall estimate the	e likely size, shape
modeling, monitoring equipment, or specialists in	this field by c	completing the re	equirements of 7.2
hrough <u>7.2.5.4</u> .			
<sup>7</sup> .2.5.1			
Criteria	i e	Grading Criter	ria
			ıa
Given the emergency response plan identify resources for dispersion pattern prediction and	Passed	Remediated Required	Not Applicable to the Organization
Given the emergency response plan identify	Passed		Not Applicable to
Given the emergency response plan identify resources for dispersion pattern prediction and modeling, including computers, monitoring equipment, or specialists in the field.	Passed		Not Applicable to
Given the emergency response plan identify resources for dispersion pattern prediction and modeling, including computers, monitoring	Passed		Not Applicable to
Given the emergency response plan identify resources for dispersion pattern prediction and modeling, including computers, monitoring equipment, or specialists in the field.	Passed		Not Applicable to
Given the emergency response plan identify resources for dispersion pattern prediction and modeling, including computers, monitoring equipment, or specialists in the field.	Passed		Not Applicable to

#### 7.2.5.2

Criteria	Grading Criteria		
Given the quantity, concentration, and release rate of a material, identify the steps for determining the likely extent of the physical, safety, and health	Passed	Remediated Required	Not Applicable to the Organization
hazards within the endangered are of the hazardous materials/WMD incident.			

Assessor Remarks:	 		

# 7.2.5.2.1

Criteria	Grading Criteria		
Describe the following terms and exposure values and explain their significance in the analysis process:	Passed	Remediated Required	Not Applicable to the Organization
Counts per Minute (cpm) and Kilo counts per Minute (kcpm)			
Immediately Dangerous to Life and Health (IDLH) value			
Incubation Period			
Infectious Dose			
Lethal Concentrations (LC <sub>50</sub> )			
Lethal Dose (LD <sub>50</sub> )			
Parts per Billion (ppb)			
Parts per Million (ppm)			
Permissible exposure limit (PEL)			
Radiation Absorbed Dose (rad)			
Roentgen Equivalent Man (rem), Millirem (mrem), Microrem (μrem)			
Threshold Limit Value Ceiling (TLV-C)			
Threshold Limit Value Short-Term Exposure Limit (TLV-STEL)			
Threshold Limit Value Time-Weighted Average (TLV-TWA)			

Assessor Remarks:			 _
			 _

# 7.2.5.2.2

Criteria	Grading Criteria		a
Identify 2 methods for predicting the areas of potential harm within the endangered area of a hazardous materials/WMD incidents.	Passed	Remediated Required	Not Applicable to the Organization
Accordar Domarke			

hazardous materials/WMD incidents.			Required		potential harm within the endangered area of a
Assessor Remarks:					hazardous materials/WMD incidents.
Assessor Remarks:					
					Assessor Remarks:
7.2.5.3					
Criteria Grading Criteria		ia	Grading Criter		Criteria
Passeo		Not Applicable		Passed	
	ition	the Organizatio	Required		
materials/WMD incidents					materials/WMD incidents
Assessor Remarks:					Assessor Remarks:
7.2.5.4					7.2.5.4
7.2.5.4  Criteria Grading Criteria		ia	Grading Criter		
Criteria Grading Criteria Grading Criteria	le to				Criteria
Criteria  Grading Criteria  Grading Criteria  Grading Criteria  Remediated Required Required The Organiza		Not Applicable	Remediated	Passed	Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding
Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the  Grading Criteria  Remediated Required Not Applicable the Organization of the Organ			Remediated	Passed	Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the
Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and  Grading Criteria  Remediated Required Not Applicable the Organization of		Not Applicable	Remediated	Passed	Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and
Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the  Grading Criteria  Remediated Required Not Applicable the Organization of the Organ		Not Applicable	Remediated	Passed	Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and
Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.  Passed  Remediated Required the Organization of the Applicable Passed the Organization of the Organization of the Applicable Passed Required the Organization of the		Not Applicable	Remediated	Passed	Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.
Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.  Grading Criteria  Remediated Required the Organization of the Org		Not Applicable	Remediated	Passed	Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.
Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.  Remediated Required the Organization of the Application of the Organization of the Application of the Organization of the Org		Not Applicable	Remediated	Passed	Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.
Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.  Grading Criteria  Remediated Required the Organization of the Org		Not Applicable	Remediated	Passed	Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.
Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.  Passed  Remediated Required the Organization of the Applicable Passed the Organization of the Organization of the Applicable Passed Required the Organization of the		Not Applicable	Remediated	Passed	Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.
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Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.  Assessor Remarks:		Not Applicable	Remediated Required		Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.  Assessor Remarks:
Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.  Passed  Remediated Required the Organization of the Applicable Passed the Organization of the Organization of the Applicable Passed Required the Organization of the		Not Applicable	Remediated Required		Criteria  Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.  Assessor Remarks:
Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.  Assessor Remarks:		Not Applicable	Remediated Required	lyzing the	Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, determine the applicable public protective response options and the areas to be protected.  Assessor Remarks:  Section 1 — Ana

Date

Assessor's Signature

# **Section 2 – Planning the Response**

## 7.3.1 Identifying Response Objectives

7.3.1.1

Criteria	Grading Criteria				
Given scenarios involving hazardous materials/WMD incidents, describe the response objectives for each problem.	Passed	Remediated Required	Not Applicable to the Organization		
Assessor Remarks:					
7.3.1.2					
Criteria	Grading Criteria				
Given an analysis of a hazardous materials/WMD incident, describe the steps for determining response objectives (defensive, offensive, and	Passed	Remediated Required	Not Applicable to the Organization		
nonintervention).					
Assessor Remarks:					
<b>7.3.2</b> Identifying the Potential Response Option 7.3.2.1	ons.				
	ons.	Grading Criter	ia		
7.3.2.1	Passed	<b>Grading Criter</b> Remediated Required	Not Applicable to the Organization		

<u>7.3.3 Selecting Personal Protective Equipment.</u> Given scenarios of hazardous materials/WMD incidents with known and unknown hazardous materials/WMD, the hazardous materials technician shall determine the personal protective equipment for the response options specified in the incident action plan in each situation by completing the requirement of <u>7.3.3.1</u> through <u>7.3.3.4.8</u>.

#### 7.3.3.1

Criteria	Grading Criteria		
Describe types of personal protective equipment that are available for response based on NFPA standards and how these items relate to EPA levels	Passed	Remediated Required	Not Applicable to the Organization
of protection.			

of protection.			
Assessor Remarks:			
7.3.3.2			
Criteria		Grading Criter	ia
Identify and describe personal protective equipment options available for the following hazards:	Passed	Remediated Required	Not Applicable to the Organization
Thermal			
Radiological			
Asphyxiating			
Chemical (liquids and vapors)			
Etiological (biological)			
Mechanical (explosive)			
Assessor Remarks:			
7.3.3.3			
Criteria		Grading Criter	ia
Identify the process to be considered in selecting	Passed	Remediated Required	Not Applicable to the Organization
respiratory protection for a specified action option.			
Assessor Remarks:			

#### 7.3.3.4

Criteria	Grading Criteria		
Identify the factors to be considered in selecting chemical-protective clothing for a specified action	Passed	Remediated Required	Not Applicable to the Organization
option.			

option.			
Assessor Remarks:			
7.3.3.4.1			
Criteria		Grading Criter	ia
Describe Degradation, Penetration, and Permeation and explain their impact and significance on the selection of chemical-protective clothing:	Passed	Remediated Required	Not Applicable to the Organization
selection of electrical protective clothing.			
Assess Brown I.			
Assessor Remarks:			
7.3.3.4.2			
Criteria		Grading Criter	ia
Identify at least 3 indications of material degradation of chemical-protective clothing.	Passed	Remediated Required	Not Applicable to the Organization
degradation of chemical-protective doming.			
Accessor Domorks			
Assessor Remarks:			
7.3.3.4.3			
Criteria		Grading Criter	ia
Identify the different designs of vapor protective and splash protective clothing and describe the	Passed	Remediated Required	Not Applicable to the Organization
advantages and disadvantages of each type.			
Assessor Remarks:			

	Grading Criteri	а
Passed	Remediated Required	Not Applicable to the Organization
	Passed	Passed

#### 7.3.3.4.5

Criteria	Grading Criteria		
Identify the process for selecting protective clothing	Passed	Remediated Required	Not Applicable to the Organization
at hazardous materials/WMD incidents.			

<b>Assessor Remarks:</b>			

#### 7.3.3.4.6

Criteria	Grading Criteria		
Given three examples of various hazardous materials, determine the protective clothing construction materials for a given action option	Passed	Remediated Required	Not Applicable to the Organization
using chemical compatibility charts.			

Assessor Remarks:		 	

#### 7.3.3.4.7

Criteria Grading Criteria		a	
Identify the physiological and psychological stresses that can affect users of personal protective	Passed	Remediated Required	Not Applicable to the Organization
equipment			

Assessor Remarks:			 

#### 7.3.3.4.8

Criteria	Grading Criteria		
Given the Personal protective equipment provided by the AHJ, identify the process for inspecting,	Passed	Remediated Required	Not Applicable to the Organization
testing and maintenance of personal protective equipment			

Assessor Remarks:
7.3.4 Selecting Decontamination Procedures. Given a scenario involving a hazardous
naterials/WMD incident, the hazardous materials technician shall select a decontamination
procedure that will minimize the hazard, shall determine the equipment required to implement that
procedure, and shall complete the following tasks:

Criteria	Grading Criteria		
Describe the advantages and limitations of each of the following decontamination methods; Identify 3 sources for determining the applicable decontamination procedures.	Passed	Remediated Required	Not Applicable to the Organization
Absorption			
Adsorption			
Chemical Degradation			
Dilution			
Disinfecting			
Evaporation			
Isolation and Disposal			
Neutralization			
Solidification			
Sterilization			
Vacuuming			
Washing			

Assessor Remarks:	 		

7.3.5 Developing a Plan of Action. Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall develop a plan of action, including site safety and control plan that is consistent with the emergency response plan and standard operating procedures and within the capability of available personnel, personal protective equipment, and control equipment for that incident by completing the requirements of 7.3.5.1 through 7.3.5.5.

#### 7.3.5.1

Criteria	Grading Criteria			
Describe the purpose of, procedure for, equipment required for, and safety precautions used with the following techniques for hazardous materials/WMD control:	Passed	Remediated Required	Not Applicable to the Organization	
Absorption				
Adsorption				
Blanketing				
Covering				
Damming				
Diking				
Dilution				
Dispersion				
Diversion				
Fire Suppression				
Neutralization				
Over packing				
Patching				
Plugging				
Pressure Isolation and Reduction (Flaring: Venting: Vent and Burn; Isolation of Valves, pumps, or energy sources)				
Retention				
Solidification				
Transfer				

Assessor Remarks:							
7.3.5.2							

# Criteria Given a scenario involving a hazardous materials/WMD incident Develop the site safety and control plan that must be included as part of the incident action plan. List and describe the safety considerations to be included. Identify the points that should be made in a safety briefing prior to working at the scene.

Assessor Remarks:			

# 7.3.5.3, 7.3.5.4, 7.3.5.5

Criteria	Grading Criteria			
Identify the atmospheric and physical safety hazards associated with hazardous materials/WMD	Passed	Remediated Required	Not Applicable to the Organization	
incidents involving confined spaces.				
Identify the pre-entry activities to be performed.				
Identify the procedures, equipment, and safety precautions for preserving and collecting legal evidence at hazardous materials/WMD incidents.				

incidents involving confined spaces.		Required	the Organization
Identify the pre-entry activities to be performed.			
Identify the procedures, equipment, and safety precautions for preserving and collecting legal evidence at hazardous materials/WMD incidents.			
Assessor Remarks:			
7.3.6 EOD/HazMat interface specific requirements			
Criteria		Grading Crite	eria
The Technician can describe or document by drill, SOP their department's effort to form an integrated HazMat and EOD (Explosive Ordinance Disposal)	Passed	Remediated Required	Not Applicable to the Organization
team response inclusive of: Baseline subject matter training, common operational protocols, and interagency drills/exercises.			
7.3.6.1			
Criteria		Grading Crite	eria
Criteria  When given an EOD scenario the Technician can describe their understanding of responsibilities	Passed	Grading Crite Remediated Required	Not Applicable to the Organization
Criteria  When given an EOD scenario the Technician can describe their understanding of responsibilities according to the SERC Integrated HazMat and EOD (Explosive Ordinance Disposal) team response guideline and SOP or department protocol inclusive of: Safe distance recommendations, apparatus placement, roles and responsibilities, unified	Passed	Remediated	Not Applicable to
Criteria  When given an EOD scenario the Technician can describe their understanding of responsibilities according to the SERC Integrated HazMat and EOD (Explosive Ordinance Disposal) team response guideline and SOP or department protocol inclusive of: Safe distance recommendations, apparatus	Passed	Remediated	Not Applicable to
Criteria  When given an EOD scenario the Technician can describe their understanding of responsibilities according to the SERC Integrated HazMat and EOD (Explosive Ordinance Disposal) team response guideline and SOP or department protocol inclusive of: Safe distance recommendations, apparatus placement, roles and responsibilities, unified command and communication protocol.		Remediated Required	Not Applicable to
Criteria  When given an EOD scenario the Technician can describe their understanding of responsibilities according to the SERC Integrated HazMat and EOD (Explosive Ordinance Disposal) team response guideline and SOP or department protocol inclusive of: Safe distance recommendations, apparatus placement, roles and responsibilities, unified command and communication protocol.  Assessor Remarks:	ng the Re	Remediated Required	Not Applicable to

# **Section 3 – Implementing the Planned Response**

7.4.1 Performing Incident Command Duties. Give the emergency response plan or standard operating procedures and a scenario involving a hazardous materials/WMD incident, the hazardous materials technician shall demonstrate the duties of an assigned function in the hazardous materials branch or group within the incident command system and shall identify the role of the hazardous materials technician during hazardous materials/WMD incidents.

7		1		1	1
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Criteria	Criteria Grading Criteria		a
Describe the duties of an assigned function in the hazardous materials branch or group within the	Passed	Remediated Required	Not Applicable to the Organization
incident command system			

Assessor Remarks:	 	 	

#### 7.4.1.2

Criteria	Grading Criteria		
Identify the role of the hazardous materials technician during hazardous materials/WMD	Passed	Remediated Required	Not Applicable to the Organization
incidents			

Assessor Remarks: į	 	 

7.4.2 Using Protective Clothing and Respiratory Protection. 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 equipment provided by the AHJ, including respiratory protection, and shall complete the following tasks:

Criteria	Grading Criteria		
Describe the safety procedures for personnel working in chemical-protective clothing	Passed	Remediated Required	Not Applicable to the Organization
Describe three emergency procedures for personnel working in chemical-protective clothing			
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			

Assessor Remarks:			

# 7.4.3 Performing Control Functions Identified in the Incident Action Plan.

(1)

Criteria	Grading Criteria		
Given a pressure vessel, select the material or equipment and demonstrate a method(s) to contain leaks from the following locations:	Passed	Remediated Required	Not Applicable to the Organization
Fusible plug			
Fusible Plug Threads			
Side Wall of Cylinder			
Valve Blowout			
Valve Gland			
Valve Inlet Threads			
Valve Seat			
Valve Stem Assembly Blowout			


(2)

Criteria	Grading Criteria			
Given the fittings on a pressure container, demonstrate the ability to perform the following:	Passed	Remediated Required	Not Applicable to the Organization	
Close Valves that are Open				
Replace Missing Plugs				
Tighten Loose Plugs				

Close Valves that are Open			
Replace Missing Plugs			
Tighten Loose Plugs			
Assessor Remarks:			
(3)			
Criteria		Grading Criter	ia
Given a 55 gallon (208L) drum and applicable tools and materials, demonstrate the ability to contain a leak in the Bung, Chime, a Forklift Puncture, and a	Passed	Remediated Required	Not Applicable to the Organization
Nail Puncture.			
Assessor Remarks:			
Assessor Remarks:			
		Grading Criter	ia
(4)  Criteria  Given a 55 gallon (208L) drum and an over pack drum, demonstrate the ability to place the 55 gallon (208L0 drum into the over pack drum using	Passed	Grading Criter Remediated Required	Not Applicable to the Organization
(4)  Criteria  Given a 55 gallon (208L) drum and an over pack drum, demonstrate the ability to place the 55		Remediated	Not Applicable to
(4)  Criteria  Given a 55 gallon (208L) drum and an over pack drum, demonstrate the ability to place the 55 gallon (208L0 drum into the over pack drum using	Passed	Remediated	Not Applicable to
Criteria  Given a 55 gallon (208L) drum and an over pack drum, demonstrate the ability to place the 55 gallon (208L0 drum into the over pack drum using the Rolling Slide-in, Slide-in, and Slip-in methods:	Passed	Remediated	Not Applicable to
Criteria  Given a 55 gallon (208L) drum and an over pack drum, demonstrate the ability to place the 55 gallon (208L0 drum into the over pack drum using the Rolling Slide-in, Slide-in, and Slip-in methods:	Passed	Remediated	Not Applicable to
Criteria  Given a 55 gallon (208L) drum and an over pack drum, demonstrate the ability to place the 55 gallon (208L0 drum into the over pack drum using the Rolling Slide-in, Slide-in, and Slip-in methods:  Assessor Remarks:	Passed	Remediated	Not Applicable to the Organization
Criteria  Given a 55 gallon (208L) drum and an over pack drum, demonstrate the ability to place the 55 gallon (208L0 drum into the over pack drum using the Rolling Slide-in, Slide-in, and Slip-in methods:  Assessor Remarks:	Passed	Remediated Required	Not Applicable to the Organization

Criteria	Grading Criteria		
Identify the maintenance and inspection procedures for the tools and equipment provided for the control of hazardous materials released	Passed	Remediated Required	Not Applicable to the Organization
according to the manufacturer's specifications and recommendations.			

<b>Assessor Remarks:</b>			

(6)

Criteria		Grading Criter	ia
Identify 3 considerations for assessing a leak or spill inside a confined space without entering the area.	Passed	Remediated Required	Not Applicable to the Organization
Assessor Remarks:			
(7)			
Criteria		Grading Criter	
Identify 3 safety considerations for product transfer operations.	Passed	Remediated Required	Not Applicable to the Organization
Accessor Bomorks			
Assessor Remarks.			
(8)			
		Grading Criter	ia
(8)  Criteria  Given an MC-306/DOT-406 cargo tank and a dome cover clamp, demonstrate the ability to install the	Passed	<b>Grading Criter</b> Remediated Required	Not Applicable to the Organization
(8)  Criteria  Given an MC-306/DOT-406 cargo tank and a dome cover clamp, demonstrate the ability to install the clamp on the dome.	Passed	Remediated	Not Applicable to
(8)  Criteria  Given an MC-306/DOT-406 cargo tank and a dome cover clamp, demonstrate the ability to install the clamp on the dome.  Assessor Remarks:	Passed	Remediated	Not Applicable to
(8)  Criteria  Given an MC-306/DOT-406 cargo tank and a dome cover clamp, demonstrate the ability to install the clamp on the dome.  Assessor Remarks:	Passed	Remediated Required	Not Applicable to the Organization
Given an MC-306/DOT-406 cargo tank and a dome cover clamp, demonstrate the ability to install the clamp on the dome.  Assessor Remarks:	Passed	Remediated	Not Applicable to the Organization

(10)

Criteria	Grading Criteria		
Describe at least one method for containing each of the following types of leaks in MC 306/DOT 406, MC 307/DOT 407, and MC 312/DOT 412 cargo tanks:	Passed	Remediated Required	Not Applicable to the Organization
Dome cover leak			
Irregular-shaped hole			
Puncture			
Split or tear			

tanks:			
Dome cover leak			
Irregular-shaped hole			
Puncture			
Split or tear			
Assessor Remarks:			
(11)			
Criteria		Grading Criteri	ia
Describe three product removal and transfer considerations for overturned MC-306/DOT 406,	Passed	Remediated Required	Not Applicable to the Organization
MC-307/DOT 407, MC-312/DOT 412, MC-331, and MC-338 cargo tanks.			
Assessor Remarks:			
7.4.4 Cargo Tanks			
Criteria		Grading Criteri	ia
Given MC-306/DOT 406, MC-307/DOT 407, MC-312/DOT 412, MC-331, and MC-338 cargo tanks, the	Passed	Remediated Required	Not Applicable to the Organization
hazardous materials technician shall identify the		<u> </u>	<del> </del>

Criteria	Grading Criteria		
Given MC-306/DOT 406, MC-307/DOT 407, MC-312/DOT 412, MC-331, and MC-338 cargo tanks, the hazardous materials technician shall identify the	Passed	Remediated Required	Not Applicable to the Organization
common methods for product transfer from each type of cargo tank.			


# 7.4.5 Performing Decontamination Operations Identified in the Incident Action Plan

Criteria	Grading Criteria		
Demonstrate the ability to set up and implement Technical Decontamination for Entry Team,	Passed	Remediated Required	Not Applicable to the Organization
Patients, and Mass Decontamination.			

	ig the i la	Section 3 – Implementing the Planned Response					
Sign	ı-Off						
sessor's Signature	 Da	ite					
Section 4 – Eva	aluating Pr	ogress					
7.5.1 Evaluating the Effectiveness of the Contr	rol Function						
Criteria		Grading Criter	ia				
Given scenarios involving hazardous materials/WMD incidents and the incident action plan, evaluate the effectiveness of any control	Passed	Remediated Required	Not Applicable to the Organization				
functions identified in the incident action plan.							
Assessor Remarks:							
		) Process					
7.5.2 Evaluating the Effectiveness of the Deco	ntamination		ia				
Criteria	ntamination	Grading Criter	1				
	ntamination Passed		Not Applicable to the Organization				
Criteria Given scenarios involving hazardous		Grading Criter Remediated	Not Applicable to				

Section 4 – Evaluating Progress					
Sign-Off					
sessor's Signature	D	ate			
Section 5 – Term	inating the	Incident			
7.6.1 Assisting in the Debriefing					
Criteria		Grading Criter	ia		
Given a scenario involving a hazardous materials/WMD incident, participate in the debriefing of the incident by completing the following requirements:	Passed	Not Applicable t the Organization			
Describe 3 components of an effective debriefing					
Describe the key topics of an effective debriefing.					
Describe when a debriefing should take place.					
Describe who should be involved in a debriefing.					
7.6.2 Assisting in the Incident Critique					
Criteria		Grading Criter	ia		
Given a scenario involving a hazardous	Passed	Remediated Required	Not Applicable to the Organization		
materials/WMD incident, provide operational observations of the activities that were performed in the hot and warm zones during the incident and shall complete the following tasks:					
observations of the activities that were performed in the hot and warm zones during the incident and			•		
observations of the activities that were performed in the hot and warm zones during the incident and shall complete the following tasks:					
observations of the activities that were performed in the hot and warm zones during the incident and shall complete the following tasks:  Describe 3 components of an effective critique					

# 7.6.3 Reporting and Documenting the Incident

Criteria	Grading Criteria			
Given a scenario involving a hazardous materials/WMD incident, provide operational observations of the activities that were performed in the hot and warm zones during the incident and shall complete the following tasks:	Passed	Remediated Required	Not Applicable to the Organization	
Describe 3 components of an effective critique				
Describe who should be involved in the critique.				
Describe why an effective critique is necessary after a hazardous materials/WMD incident.				
Describe which written documents should be prepared as a result of the critique				

prepared as a result of the o	ritique			
Assessor Remarks:				
	Section 5 – Tern	ninating tl	ne Incident	
	Si	gn-Off		
Assessor's Signature		i	Date Date	