

HAZARDOUS MATERIALS SKILLS MANUAL

CHAPTER SIX

Effective June 1, 2010



Texas Commission on Fire Protection
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Hazardous Materials Training Equipment & Prop List

The following are minimal recommended supplies necessary for hazardous materials training at the below listed levels of certification. Variations may exist based on the needs of each AHJ and any mission-specific job tasks as assigned by an AHJ.

Hazardous Materials Awareness

Department of Transportation's Emergency Response Guidebook (ERG) (current ed.)

Material Safety Data Sheet (MSDS – Sample

Placards & Labels

Transportation/Shipping document – Sample

NFPA 704 sample

Safety Vests

Binoculars

Hazardous Materials Operations

Awareness equipment plus...

Structural Firefighter Protective Ensemble (bunker gear)

Reference Material:

- NIOSH Pocket Guide to Chemical Hazards
- NFPA Hazardous Materials / Weapons of Mass Destruction Response Handbook (current edition)
- Pesticide Label example

Respiratory Protection to include:

- Air Purifying Respirator (APR-half mask)
- Air Purifying Respirator (APR-full face)
- SCBA

Chemical Protective Clothing to include:

- Vapor Protective CPC (Level A)
- Splash Protective Encapsulated CPC (Level B)
- Splash Protective Non-Encapsulated CPC (Level B, Level C)
- Chemical Boots (Rubber Boots for training only)
- Inner/Outer gloves - assorted types
- Chem Tape (duct tape for training only)

Fire Hose, Foam Nozzles and Eductors, Foam

Pictures/slides of various railcar, intermodal, and highway cargo trailers

Pictures/slides of bulk and non-bulk containers, and fixed facility containment systems

Defensive Spill Equipment:

- Absorbent/Adsorbent
- Broom/Shovel
- 5-gallon buckets
- Assortment of boom and pads

Decontamination Equipment:

- Poly sheeting or tarp
- Duct tape
- Traffic cone(s)
- Decon Pools
- Sprayer(s)
- Garden hose(s) and sprayer/nozzles
- 5-gallon bucket(s)
- Various Decon solution(s)
- Folding chairs
- Overpack drum

Various monitoring detection equipment as may be required. Examples *may* include:

- Combustible Gas Indicator
- Oxygen Meter
- Radiation Detector

Hazardous Materials Operations – Mission Specific Competencies

Equipment needed for training to Hazardous Materials Operations – Mission Specific Competencies will be based the competencies themselves and the authority having jurisdiction (AHJ). Equipment, at a minimum, will include that which is required to train to the Hazardous Materials Operations Level. Additional equipment or props may include part or all of the equipment listed below for Hazardous Materials Technician.

For example, if training to the Mission Specific Competencies: Air Monitoring and Sampling is to be performed, additional monitoring detection and sampling equipment will be required.

Hazardous Materials Technician

Awareness and Operations equipment plus...

Reference Material:

- AAR Emergency Action Guide
- CPC Permeation Guides/Tables
- AAR Field Guide to Railcar Identification
- NFPA Fire Protection Guide to Hazardous Materials Detection
- Other printed or electronic publications/databases as may be required by the AHJ

Various monitoring detection equipment and corresponding samples to include:

- Combustible Gas Indicator
- Oxygen Meter
- Carbon monoxide meter
- Gas specific meter
- Photoionization detector
- Radiation Detectors (alpha, beta, gamma)
- Colormetric tubes, pump
- Classifier/Detection strips and reagents
- pH paper or pH meter
- additional monitoring and detection equipment as may be required by AHJ
- Calibration kit(s) as required for above

Leak & Spill Equipment:

- Plugging/Patching supplies
- Leaking drum(s): metal & poly
- Overpack drum(s)
- Leak pipe simulator
- 150 lbs. Chlorine cylinder leak prop
 - Chlorine emergency kit type "A"
- Chlorine 1-Ton cylinder leak prop
 - Chlorine emergency kit type "B"
- Pressure Railcar dome leak prop
 - Chlorine emergency kit type "C" or Midland kit
- Cargo Tank Leak Simulator (MC-306/DOT-406 Dome)
- Dome Cover Clamp
- Grounding & Bonding Kit
- Product Transfer Equipment
- Misc. Hand Tools (e.g., hand wrenches, bung wrench, spanner wrench, mallet, screwdrivers, etc.)

Command and Control Equipment/Forms (e.g., Incident Action Plan, Site Safety Plan, Medical Plan, Communication Plan - all NIMS/ICS compliant)

Hazardous Materials Incident Commander

Reference Material

- Department of Transportation's Emergency Response Guidebook (ERG) (current ed.)
- Material Safety Data Sheet (MSDS)- Sample
- Transportation/Shipping document – Sample
- NIOSH Pocket Guide to Chemical Hazards

- NFPA Hazardous Materials / Weapons of Mass Destruction Response Handbook (current edition)
- AAR Emergency Action Guide
- CPC Permeation Guides/Tables
- AAR Field Guide to Railcar Identification
- NFPA Fire Protection Guide to Hazardous Materials Detection
- Other printed or electronic publications/databases as may be required by the AHJ

Command and Control Equipment/Forms

- Department of Homeland Security – National Incident Management System/Incident Command System standardized forms
 - ICS 201 Incident Briefing Form
 - ICS 202 Incident Objectives Worksheet
 - ICS 203 Organization Assignment List
 - ICS 204 Division Assignment List
 - ICS 205 Communications Plan
 - ICS 206 Medical Plan
 - ICS 208HM Site Safety and Control Plan
 - ICS 211 Incident Check-in List
 - ICS 213 General Message
 - ICS 214 Unit Log
 - ICS 215 Incident Planning Worksheet
 - ICS 215A Incident Action Plan Safety Analysis

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Awareness
Performance Standards

GENERAL
DOT Emergency Response Guidebook
Skill # 1

PERFORMANCE STANDARD

Section 601

NFPA 472 4.1.2.2, 4.2.3, 4.4.1

Awareness

OBJECTIVE

Given examples of hazardous materials/WMD incidents, the emergency response plan, the standard operating procedures, and the current edition of the DOT *Emergency Response Guidebook*, awareness level personnel shall be able to identify the actions to be taken to protect themselves and others and to control access to the scene and shall meet the following requirements:

4.1.2.2 (1)

Analyze the incident to determine both the hazardous material/WMD present and the basic hazard and response information for each hazardous material/WMD agent by completing the required tasks.

4.1.2.2 (2)

Implement actions consistent with the emergency response plan, the standard operating procedures, and the current edition of the DOT *Emergency Response Guidebook* by completing the required tasks.

4.2.3

Given the identity of various hazardous materials/WMD (name, UN/NA identification number, or type of placard), the awareness level personnel shall identify the fire, explosion, and health hazard information for each material by using the current edition of the DOT *Emergency Response Guidebook* and shall meet all requirements.

4.4.1

Given examples of hazardous materials/WMD incidents, the emergency response plan, the standard operating procedures, and the current edition of the DOT *Emergency Response Guidebook*, awareness level personnel shall be able to identify the actions to be taken to protect themselves and others and to control access to the scene and shall meet all requirements.

INSTRUCTIONS - procedures for achieving the objective

Given the most current edition of the *Emergency Response Guidebook* and a scenario or worksheet, you shall analyze, identify and describe, as may be required, the actions that are appropriate for the safe implementation of awareness level response measures.

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TEXAS COMMISSION ON FIRE PROTECTION

Awareness

Performance Standards

You shall respond verbally or in the written form as may be appropriate. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE:

The candidate will not be allowed to review the performance steps at the time of testing.

Coordinators and Instructors: Refer to the example scenario & worksheet attached to this skill for additional guidance.

PREPARATION & EQUIPMENT

Emergency Response Guidebook, most current edition

A written or audio/visual representation of a scene or scenario (i.e. PowerPoint Presentation) or an instructor prepared worksheet.

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Awareness
 Performance Standards

GENERAL
 DOT Emergency Response Guidebook
Skill # 1

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS AWARENESS SKILL #1	TEST		RETEST	
	S	U	S	U
<p>General</p> <p>Analyze the incident to determine both the hazardous material/WMD present and the basic hazard and response information for each hazardous material/WMD agent by completing the following tasks (4.1.2.2 (1))</p> <p>Implement actions consistent with the emergency response plan, the standard operating procedures, and the current edition of the DOT <i>Emergency Response Guidebook</i> by completing the following tasks (4.1.2.2 (2))</p> <p>Given the identity of various hazardous materials/WMD (name, UN/NA identification number, or type of placard), the awareness level personnel shall identify the fire, explosion, and health hazard information for each material by using the current edition of the DOT <i>Emergency Response Guidebook</i> and shall meet the following requirements. (4.2.3)</p> <p>Given examples of hazardous materials/WMD incidents, the emergency response plan, the standard operating procedures, and the current edition of the DOT <i>Emergency Response Guidebook</i>, awareness level personnel shall be able to identify the actions to be taken to protect themselves and others and to control access to the scene and shall meet the following requirements. (4.4.1)</p>				

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TEXAS COMMISSION ON FIRE PROTECTION

Awareness

Performance Standards

The candidate shall:	S	U	S	U
a) Identify the Hazardous Material/WMD and/or the UN ID number for the unidentified material.				
b) Look up the Hazardous Material/WMD name in the appropriate section. <ul style="list-style-type: none"> • Use the yellow section to obtain information based on the chemical ID number, or • Use the blue section to obtain information based on the alphabetical chemical name 				
c) Note any highlighted entries and verbally identify it as a Toxic Inhalation Hazard (TIH).				
d) Determine the correct emergency action guide to use for the Hazardous Material/WMD identified based on: <ul style="list-style-type: none"> • Table of Placards, or • The Rail Car Identification Chart, or • The Road Trailer Identification Chart, or • The UN Number, or • The name of the Hazardous Material/WMD 				
e) Identify the potential fire and explosion and/or health hazards for the identified Hazardous Material/WMD.				
f) Identify the isolation distance and the protective actions required for the identified Hazardous Material/WMD. <ul style="list-style-type: none"> • Use the green section for Toxic Inhalation Hazards isolation distances when not involved in a fire • Use the orange guide page for all other isolation distances 				
g) Identify the appropriate emergency response actions for the identified Hazardous Material/WMD found on the orange guide pages based on the given scenario.				

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Awareness
Performance Standards

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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Emergency Response Guidebook Worksheet

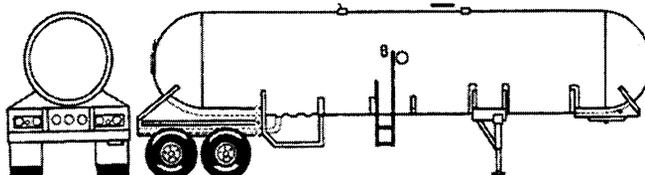
Guidelines for Development and Use

- The following worksheet is an example of a instructor designed worksheet that could be used to test a firefighter trainee's ability to properly use an Emergency Response Guidebook during a Hazardous Materials response. This worksheet has been designed to be completed using the 2008 edition of the Emergency Response Guidebook.
- The use of this worksheet would be suitable for training purposes. However, for skill examination purposes, it is expected that images, placards, UN numbers, and chemical names would be changed.
- This is not a single source solution skills examination evaluation. The development and use of a unique worksheet would be appropriate, acceptable and encouraged.
- Minimum worksheet development guidelines should include the following minimal content items as a general rule:
 - Hazardous Materials identification by UN Number (Yellow Section)
 - Hazardous Materials identification by Chemical Name (Blue Section)
 - Identify the correct
 - The ability to derive information from the Emergency Action Guide pages (Orange Section) including :
 - Potential Fire and Explosion Hazards
 - Potential Health Hazards
 - Protective Clothing Selection
 - Evacuation Considerations
 - Firefighting Measures
 - Spill or Leak recommended control measures
 - Immediate First Aid actions
 - The identification of Isolation Distances and Protective Actions for Non-Toxic Inhalation Hazards (Orange Section)
 - The identification of Initial Isolation Distances and Downwind Protective Distances for Toxic Inhalation Hazards (Green Section)

Worksheet

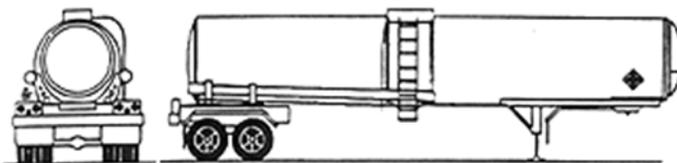
Using the *2008 Emergency Response Guidebook* solve the following problems:

1. What is the initial **isolation zone** and **downwind protective action distance** day and night when there is a small leak from the highway cargo tanker pictured here?



2. What is the **primary hazard** of the product with the ID number **UN1824**

3. What type of **fire fighting foam** should be used on a large spill fire involving the product in this highway cargo tanker? Are there **toxic effects** associated with this product?



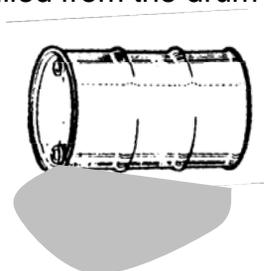
4. What type of protective clothing should be worn to handle a spill involving **Hydrofluoric acid, solution**?

5. In case of accidental eye contact with **methanol**, what actions should you take?

6. What are the recommended **extinguishing agents** for the product with this placard? What is this product?



7. Which **guide number** should be used for the product spilled from the drum in this picture?



Guide Number: _____

8. Identify the **hazards and product name** of this display found on an intermodal container.



9. What is the **recommended evacuation distance** if a truck load of explosives with this placard is involved in a fire?



10. If **Styrene** is exposed to **excessive heat**, what may occur?

11. What types of extinguishing agents should **not** be applied to fires involving **Perchloric acid UN1802**?

12. What is Protective Clothing and Respiratory Protection recommendation for a response involving **Chloropicrin**?

13. Which guide number should be used for emergency response information for a spill involving material with this placard?

Guide Number: _____



14. What are the emergency response telephone numbers for **CHEMTREC®** and the **NATIONAL RESPONSE CENTER (NRC)**?

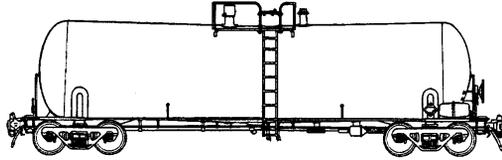
NRC #: _____

CHEMTREC#: _____

15. If water is leaking into a cargo hold of a barge containing **UN1830**, what may occur?

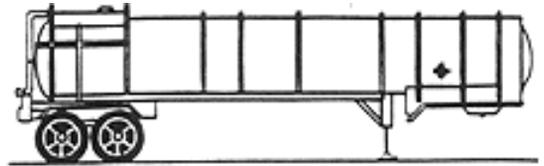
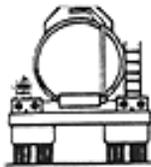
16. Which guide number would you use to find response information about the railcar pictured here?

Guide Number: _____

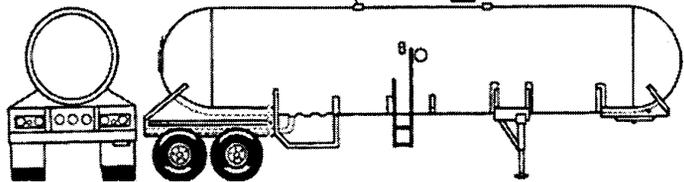


17. Which guide number would you use to find response information about the highway cargo tanker pictured here?

Guide Number: _____



18. If the highway cargo tanker pictured below is involved in a fire, what **sights or sounds** should cause an immediate withdrawal of emergency response personnel?



19. If a container of the material with this placard is submerged in water, what Toxic-by-Inhalation (TIH) gas may be produced?



20. Is **UN1053** a flammable gas? What is its primary hazard, fire or toxicity?

21. If an unconscious person is contaminated with "Boron trifluoride, diethyl etherate" is mouth-to-mouth a recommended first-aid procedure?

Guide _____

22. Why does "Propadiene, inhibited" have a "P" following the Guide Number in the blue-bordered Section?

23. If a large amount of "sulfuryl chloride" is spilled into water, what is the initial isolation distance?

UN Identification Number _____

Initial Isolation distance _____.

24. What toxic gases may be produced by the reaction between sulfuryl chloride and water?

25. What general safety precautions are recommended by the 2008 North American Emergency Response Guidebook?

1. _____.

2. _____.

3. _____.

4. _____.

5. _____.

6. _____.

7. _____.

8. _____.

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Awareness
Performance Standards

Analyzing the Incident
Container Recognition
Skill # 2

PERFORMANCE STANDARD

Section 601

NFPA 472 4.2.1(6)

Awareness

OBJECTIVE

Given examples of containers, awareness level personnel shall be able to recognize typical container shapes that may indicate the possible presence of a hazardous materials/WMD.

4.2.1 (6)

Identify typical container shapes that can indicate the presence of a hazardous materials/WMD.

INSTRUCTIONS - procedures for achieving the objective

Given a scenario, worksheet, or audio/visual presentation you shall identify the type of container represented. You shall respond verbally or in the written form as may be appropriate. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE:

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

A worksheet or audio/visual presentation (i.e. PowerPoint Presentation) or an instructor prepared worksheet.

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TEXAS COMMISSION ON FIRE PROTECTION

Awareness

Performance Standards

Analyzing the Incident

Container Recognition

Skill # 2

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS AWARENESS SKILL #2	TEST		RETEST	
Analyzing the Incident	PASS	FAIL	PASS	FAIL
Detecting the Presence of Hazardous Materials/WMD				
Identify typical container shapes that can indicate the presence of a hazardous materials/WMD. 4.2.1 (6)				
The candidate shall:	S	U	S	U
a) Identify Non Bulk Containers <ul style="list-style-type: none"> • Dry Goods Container (i.e. Bag or Fiberboard Drum), or • Liquid Container (i.e. Steel or Poly Drum), or • Pressure Vessel/ Gas Cylinder, or • Cryogenic Container (i.e. Dewar), or • Radiation Container (Type A or Type B Packaging) 				
b) Identify Bulk Containers <ul style="list-style-type: none"> • Rail Cars (i.e. Pressure Car, Non Pressure Car, Special Purpose Car), or • Road Trailers (i.e. Non Pressure, Corrosive, Dry Bulk Trailers), or • Intermodal Containers 				
c) Identify Fixed Facility Storage Systems (i.e. Above Ground Storage Tanks)				
d) Identify Pipeline				
e) Identify Ships or Marine Vessels (i.e. Tankers, Cargo Vessels, Barges)				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Awareness
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Awareness
Performance Standards

Analyzing the Incident
Hazard Recognition
Skill # 3

PERFORMANCE STANDARD

Section 601

NFPA 472 4.2.1(7), 4.2.1(8), 4.2.1(9)

Awareness

OBJECTIVE

Given facility/transportation markings that indicate the presence of hazardous materials/WMD, describe the significance of each marking system's colors, numbers, and special symbols used.

4.2.1 (7)

Identify facility and transportation markings and colors that indicate hazardous materials/WMD

4.2.1 (8)

Given an NFPA 704 marking, describe the significance of the colors, numbers, and special symbols

4.2.1 (9)

Identify U.S. and Canadian placards and labels that indicate hazardous materials/WMD

INSTRUCTIONS - procedures for achieving the objective

Given a scenario, worksheet, or audio/visual presentation you shall describe/identify the significance of the markings, colors, numbers, and special symbols used for facility and transportation hazard marking systems. You shall respond verbally or in the written form as may be appropriate. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE:

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

A worksheet or audio/visual presentation (i.e. PowerPoint Presentation) or an instructor prepared worksheet.

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TEXAS COMMISSION ON FIRE PROTECTION

Awareness

Performance Standards

Analyzing the Incident

Hazard Recognition

Skill # 3

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS AWARENESS SKILL #3	TEST		RETEST	
Analyzing the Incident	S	U	S	U
Identify facility and transportation markings and colors that indicate hazardous materials/WMD (4.2.1 (7))				
The candidate shall:	S	U	S	U
Describe the significance of the markings, colors, numbers, and special symbols used for:				
a) Transportation markings, including: <ul style="list-style-type: none"> • UN/NA identification number markings • Marine pollutant mark • Elevated temperature (hot) mark • Commodity markings • Inhalation hazard mark 				
b) NFPA 704, Standard System for the Identification of the Hazards of Materials for Emergency Response, markings				
c) Military hazardous materials/WMD markings				
d) Special hazard communication markings for each hazard class				
e) Pipeline markings				
f) Container Markings				
Given an NFPA 704 marking, describe the significance of the colors, numbers, and special symbols (4.2.1 (8))				
The candidate shall:	S	U	S	U
Describe the significance of the colors, numbers, and special symbols used for:				
a) The Blue/Health panel				
b) The Red/Flammability panel				
c) The Yellow/Reactive panel				
d) The White/Special Hazard panel				

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Awareness
Performance Standards

Identify U.S. and Canadian placards and labels that indicate hazardous materials/WMD (4.2.1 (9))				
The candidate shall:	S	U	S	U
Identify the placards and labels for:				
a) Class 1 - Explosives <ul style="list-style-type: none"> • Division 1.1 Explosives w/Mass Explosion Hazard • Division 1.2 Explosives w/Projectile Hazard • Division 1.3 Explosives w/Fire Hazard • Division 1.4 Explosives w/No Significant Blast Hazard • Division 1.5 Very Insensitive Explosives w/a Mass Explosion Hazard • Division 1.6 Extremely Insensitive Articles 				
b) Class 2 - Gases <ul style="list-style-type: none"> • Division 2.1 Flammable Gases • Division 2.2 Non Flammable/Non Toxic Gases • Division 2.3 Toxic Gases 				
c) Class 3 - Flammable and Combustible Liquids				
d) Class 4 - Flammable Solids; Spontaneously Combustible Liquids; and Dangerous when Wet Materials/Water Reactive Substances <ul style="list-style-type: none"> • Division 4.1 Flammable Solids • Division 4.2 Spontaneously Combustible Liquids • Division 4.3 Wet Materials/Water Reactive Substances 				
e) Class 5 - Oxidizing Substances and Organic Peroxides <ul style="list-style-type: none"> • Division 5.1 Oxidizing Substances • Division 5.2 Organic Peroxides 				
f) Class 6 - Toxic and Infectious Substances <ul style="list-style-type: none"> • Division 6.1 Toxic Gases • Division 6.2 Infectious Substances 				
g) Class 7 - Radioactive Materials				
h) Class 8 - Corrosive Substances				
i) Class 9 - Miscellaneous Hazardous Materials/Products/Substances, or Organisms				

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TEXAS COMMISSION ON FIRE PROTECTION
Awareness
Performance Standards

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

Certifying Examiner

Date

Re-Test Certifying Examiner

Date

Overall Skill Sheet Score
Pass <input type="checkbox"/> Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score
Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

GENERAL

Analyze, Plan, Implement, and Evaluate Response Objectives

Skill #1

PERFORMANCE STANDARD

Section 602

NFPA 472 5.1.2.2

Operations

OBJECTIVE

When responding to hazardous materials/WMD incidents, operations level responders shall be able to perform the following tasks:

- (1) Analyze a hazardous materials/WMD incident to determine the scope of the problem and potential outcomes by completing the following tasks:
 - (a) Survey a hazardous materials/WMD incident to identify the containers and materials involved, determine whether hazardous materials/WMD have been released, and evaluate the surrounding conditions.
 - (b) Collect hazard and response information from MSDS; CHEMTREC/CANUTEC/SETIQ; local, state, and federal authorities; and shipper/manufacturer contacts.
 - (c) Predict the likely behavior of a hazardous material/WMD and its container.
 - (d) Estimate the potential harm at a hazardous materials/WMD incident.

- (2) Plan an initial response to a hazardous materials/WMD incident within the capabilities and competencies of available personnel and personal protective equipment by completing the following tasks:
 - (a) Describe the response objectives for the hazardous materials/WMD incident.
 - (b) Describe the response options available for each objective.
 - (c) Determine whether the personal protective equipment provided is appropriate for implementing each option.
 - (d) Describe emergency decontamination procedures.
 - (e) Develop a plan of action, including safety considerations.

- (3) 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 by completing the following tasks:
 - (a) Establish and enforce scene control procedures, including control zones, emergency decontamination, and communications.

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- (b) Where criminal or terrorist acts are suspected, establish means of evidence preservation.
 - (c) Initiate an incident command system (ICS) for hazardous materials/WMD incidents.
 - (d) Perform tasks assigned as identified in the incident action plan.
 - (e) Demonstrate emergency decontamination.
- (4) Evaluate the progress of the actions taken at a hazardous materials/WMD incident to ensure that the response objectives are being met safely, effectively, and efficiently by completing the following tasks:
- (a) Evaluate the status of the actions taken in accomplishing the response objectives.
 - (b) Communicate the status of the planned response.

INSTRUCTIONS - procedures for achieving the objective

Given a scenario, emergency response and hazardous materials equipment to include reference sources and PPE/CPC, you will implement a planned response to favorably change the outcomes consistent with the local emergency response plan and the organization's standard operating procedures. You will also evaluate the progress of the actions taken to ensure that the response objectives are being met safely, effectively, and efficiently. You will be operating as part of a team. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Hazardous materials scenario

North American *Emergency Response Guidebook*, current edition

MSDS

Additional hazmat references per AHJ

Personal protective equipment

Chemical protective clothing (AHJ)

Local emergency response plan (AHJ)

Standard operating procedures (AHJ)

Emergency Response and Hazardous Materials Response Equipment per AHJ

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Performance Standards

GENERAL
Analyze, Plan, Implement, and Evaluate Response Objectives
Skill #1

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS	<u>TEST</u>		<u>RETEST</u>	
General - Skill Number #1	S	U	S	U
<p>When responding to hazardous materials/WMD incidents, operations level responders shall be able to perform the following tasks:</p> <p>(1) Analyze a hazardous materials/WMD incident to determine the scope of the problem and potential outcomes by completing the following tasks:</p> <p style="padding-left: 40px;">(a) Survey a hazardous materials/WMD incident to identify the containers and materials involved, determine whether hazardous materials/WMD have been released, and evaluate the surrounding conditions.</p> <p style="padding-left: 40px;">(b) Collect hazard and response information from MSDS; CHEMTREC/CANUTEC/SETIQ; local, state, and federal authorities; and shipper/manufacturer contacts.</p> <p style="padding-left: 40px;">(c) Predict the likely behavior of a hazardous material/WMD and its container.</p> <p style="padding-left: 40px;">(d) Estimate the potential harm at a hazardous materials/WMD incident.</p> <p>(2) Plan an initial response to a hazardous materials/WMD incident within the capabilities and competencies of available personnel and personal protective equipment by completing the following tasks:</p> <p style="padding-left: 40px;">(a) Describe the response objectives for the hazardous materials/WMD incident.</p> <p style="padding-left: 40px;">(b) Describe the response options available</p>				

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<p>for each objective.</p> <p>(c) Determine whether the personal protective equipment provided is appropriate for implementing each option.</p> <p>(d) Describe emergency decontamination procedures.</p> <p>(e) Develop a plan of action, including safety considerations.</p> <p>(3) 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 by completing the following tasks:</p> <p>(a) Establish and enforce scene control procedures, including control zones, emergency decontamination, and communications.</p> <p>(b) Where criminal or terrorist acts are suspected, establish means of evidence preservation.</p> <p>(c) Initiate an incident command system (ICS) for hazardous materials/WMD incidents.</p> <p>(d) Perform tasks assigned as identified in the incident action plan.</p> <p>(e) Demonstrate emergency decontamination.</p> <p>(4) Evaluate the progress of the actions taken at a hazardous materials/WMD incident to ensure that the response objectives are being met safely, effectively, and efficiently by completing the following tasks:</p> <p>(a) Evaluate the status of the actions taken in accomplishing the response objectives.</p> <p>(b) Communicate the status of the planned response.</p> <p style="text-align: right;">(5.1.2.2)</p>				
The candidate shall:	S	U	S	U
(1) Analyze a hazardous materials/WMD incident to determine the scope of the problem and potential outcomes by completing the following tasks:				
(a) Survey a hazardous materials/WMD incident to identify the containers and				

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materials involved, determine whether hazardous materials/WMD have been released, and evaluate the surrounding conditions.				
(b) Collect hazard and response information from MSDS; CHEMTREC /CANUTEC /SETIQ; local, state, and federal authorities; and shipper/manufacturer contacts.				
(c) Predict the likely behavior of a hazardous material/WMD and its container.				
(d) Estimate the potential harm at a hazardous materials/WMD incident.				
(2) Plan an initial response to a hazardous materials/WMD incident within the capabilities and competencies of available personnel and personal protective equipment by completing the following tasks:				
(a) Describe the response objectives for the hazardous materials/WMD incident.				
(b) Describe the response options available for each objective.				
(c) Determine whether the personal protective equipment provided is appropriate for implementing each option.				
(d) Describe emergency decontamination procedures.				
(e) Develop a plan of action, including safety considerations.				
(3) 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 by completing the following tasks:				
(a) Establish and enforce scene control procedures, including control zones, emergency decontamination, and communications.				
(b) Where criminal or terrorist acts are suspected, establish means of evidence preservation.				
(c) Initiate an incident command system (ICS) for hazardous materials/WMD incidents.				

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(d) Perform tasks assigned as identified in the incident action plan.				
(e) Demonstrate emergency decontamination.				
(4) Evaluate the progress of the actions taken at a hazardous materials/WMD incident to ensure that the response objectives are being met safely, effectively, and efficiently by completing the following tasks:				
(a) Evaluate the status of the actions taken in accomplishing the response objectives.				
(b) Communicate the status of the planned response.				

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Operations

Performance Standards

ANALYZING THE INCIDENT

Container Identification

Skill #2

PERFORMANCE STANDARD

Section 602

**NFPA 472 5.2.1, 5.2.1.1.1, 5.2.1.1.2,
5.2.1.1.3, 5.2.1.1.4, 5.2.1.1.5, 5.2.1.1.6**

Operations

OBJECTIVE

Given scenarios involving hazardous materials/WMD incidents, the operations level responder shall survey the incident to identify the containers and materials involved, determine whether hazardous materials/WMD have been released, and evaluate the surrounding conditions .

Given three examples each of liquid, gas, and solid hazardous material or WMD, including various hazard classes, operations level personnel shall identify the general shapes of containers in which the hazardous materials/WMD are typically found.

Given examples of the following tank cars, the operations level responder shall identify each tank car by type, as follows:

- (1) Cryogenic liquid tank cars
- (2) Nonpressure tank cars (general service or low pressure cars)
- (3) Pressure tank cars

Given examples of the following intermodal tanks, the operations level responder shall identify each intermodal tank by type, as follows:

- (1) Nonpressure intermodal tanks
- (2) Pressure intermodal tanks
- (3) Specialized intermodal tanks, including the following:
 - (a) Cryogenic intermodal tanks
 - (b) Tube modules

Given examples of the following cargo tanks, the operations level responder shall identify each cargo tank by type, as follows:

- (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) Nonpressure liquid tanks

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Given examples of the following storage tanks, the operations level responder shall identify each tank by type, as follows:

- (1) Cryogenic liquid tank
- (2) Nonpressure tank
- (3) Pressure tank

Given examples of the following nonbulk packaging, the operations level responder shall identify each package by type, as follows:

- (1) Bags
- (2) Carboys
- (3) Cylinders
- (4) Drums
- (5) Dewar flask (cryogenic liquids)

Given examples of the following radioactive material packages, the operations level responder shall identify the characteristics of each container or package by type, as follows:

- (1) Excepted
- (2) Industrial
- (3) Type A
- (4) Type B
- (5) Type C

INSTRUCTIONS - procedures for achieving the objective

You will be presented images or diagrams of various container types and given a worksheet to complete. While doing the images/diagrams complete the worksheet by providing the following information concerning the containers: identify the container by name, by container type, by possible product class, by physical state of the product and any special features/considerations. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing.

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Operations
Performance Standards

PREPARATION & EQUIPMENT

Several scenarios involving hazardous materials/WMD incidents and diagrams of the different types of containers of hazardous materials/WMD from the list below:

1. Images, diagrams, or multimedia presentation illustrating different types of containers to include:
 - a. Highway cargo tanks
 - b. Railcar tanks
 - c. Intermodal tanks
 - d. Fixed facility storage tanks
 - e. Non-bulk containers
 - f. Radioactive material packages
2. Container identification worksheet

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Performance Standards

ANALYZING THE INCIDENT

Container Identification

Skill #2

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS	<u>TEST</u>		<u>RETEST</u>	
ANALYZING THE INCIDENT- Skill Number #2	S	U	S	U
Given scenarios involving hazardous materials/WMD incidents, the operations level responder shall survey the incident to identify the containers and materials involved, determine whether hazardous materials/WMD have been released, and evaluate the surrounding conditions. <p style="text-align: right;">(5.2.1)</p>				
Given three examples each of liquid, gas, and solid hazardous material or WMD, including various hazard classes, operations level personnel shall identify the general shapes of containers in which the hazardous materials/WMD are typically found. <p style="text-align: right;">(5.2.1.1)</p>				
The candidate shall:	S	U	S	U
a) Correctly identifies railcar tank examples				
b) Correctly identifies highway cargo tank examples				
c) Correctly identifies intermodal tank examples				
d) Correctly identifies non-bulk container examples				
e) Correctly identifies radioactive material package examples				
f) Correctly identifies fixed facility storage tank examples				

Evaluator/Candidate Comments:

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All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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Operations

Container Identification Worksheet

RAILCAR TANK		
	Container Name	
1		
2		
3		
INTERMODAL TANK		
	Container Name	Type/Specification
1		
2		
3		
4		
5		
HIGHWAY CARGO TANK		
	Container Name.	MC/DOT Specification
1		
2		
3		
4		
5		
6		
7		
NON-BULK CONTAINER PACKAGING		
	Container Name/Type	
1		
2		
3		
4		
5		
FIXED FACILITY STORAGE TANK		
	Container Name	
1		
2		
3		
RADIOACTIVE MATERIAL PACKAGING		
	Container Name	Characteristics
1		
2		
3		
4		
5		

TEXAS COMMISSION ON FIRE PROTECTION
Operations

Performance Standards

ANALYZING THE INCIDENT

Identify Pesticide Label

Skill #3

PERFORMANCE STANDARD

Section 602

NFPA 472 5.2.1.3.2

Operations

OBJECTIVE

Given a pesticide label, the operations level responder shall identify each of the following pieces of information, and then match the piece of information to its significance in surveying hazardous materials incidents:

- (1) Active ingredient
- (2) Hazard statement
- (3) Name of pesticide
- (4) Pest control product (PCP) number (in Canada)
- (5) Precautionary statement
- (6) Signal word

INSTRUCTIONS - procedures for achieving the objective

Given a pesticide label and a worksheet, you shall complete the worksheet identifying the following information: 1) the Name of the pesticide, 2) its Active ingredient, 3) the Hazard statement, 4) the EPA registration number or Pest Control Product (PCP) number (in Canada), 5) the Precautionary statement, and 6) the Signal word. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Pesticide label

Pesticide label worksheet

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
 Performance Standards

ANALYZING THE INCIDENT
 Identify Pesticide Label
Skill #3

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS	TEST		RETEST	
ANALYZING THE INCIDENT -Skill Number #3	S	U	S	U
Given a pesticide label, the operations level responder shall identify each of the following pieces of information, and then match the piece of information to its significance in surveying hazardous materials incidents: (1) Active ingredient (2) Hazard statement (3) Name of pesticide (4) Pest control product (PCP) number (in Canada) (5) Precautionary statement (6) Signal word <div style="text-align: right;">(5.2.1.3.2)</div>				
The candidate shall:	S	U	S	U
a) Identifies the Active ingredient				
b) Identifies the Hazard statement				
c) Identifies the Name of pesticide				
d) Identifies the EPA registration number or Pest Control Product (PCP) number				
e) Identifies the Precautionary statement				
f) Identifies the Signal word				
g) Describes appropriate response actions for dealing with the identified product.				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
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Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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Pesticide Label Worksheet

Using the Pesticide label provided for _____ answer the following questions:

1. What is the Active ingredient in this pesticide? _____
2. What information is provided in the Hazard Statement? _____
3. What is the Name of pesticide? _____
4. What is the EPA Registration Number (or Pest Control Product (PCP) number in Canada)? _____

5. What information is provided in the Precautionary Statement?

6. What Signal Word is used on the label? What does it mean?

7. What are the appropriate response actions for dealing with the identified product?

TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

ANALYZING THE INCIDENT
Collect Hazard and Response Information using MSDS
Skill #4

PERFORMANCE STANDARD

Section 602

NFPA 472 5.2.2 (2), (3)

Operations

OBJECTIVE

Given scenarios involving known hazardous materials/WMD, the operations level responder shall collect hazard and response information using MSDS, CHEMTREC/CANUTEC/SETIQ, governmental authorities, and shippers and manufacturers and shall meet the following requirements:

- (2) Identify two ways to obtain an MSDS in an emergency.
- (3) Using an MSDS for a specified material, identify the following hazard and response information:
 - (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 and leaks)
 - (i) Applicable control measures, including personal protective equipment
 - (j) Emergency and first-aid procedures

INSTRUCTIONS - procedures for achieving the objective

Given a material safety data sheet (MSDS) and a MSDS worksheet, you shall collect the following information and record it on the worksheet:

- (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 and leaks)
- (i) Applicable control measures, including personal protective equipment
- (j) Emergency and first-aid procedures

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Various material safety data sheets
MSDS worksheet

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TEXAS COMMISSION ON FIRE PROTECTION

Operations

Performance Standards

ANALYZING THE INCIDENT

Identify MSDS

Skill #4

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS	<u>TEST</u>		<u>RETEST</u>	
ANALYZING THE INCIDENT- Skill Number #4	S	U	S	U
<p>Given scenarios involving known hazardous materials/WMD, the operations level responder shall collect hazard and response information using MSDS, CHEMTREC/CANUTEC/SETIQ, governmental authorities, and shippers and manufacturers and shall meet the following requirements:</p> <p>(2) Identify two ways to obtain an MSDS in an emergency.</p> <p>(3) Using an MSDS for a specified material, identify the following hazard and response information:</p> <p>(a) Physical and chemical characteristics</p> <p>(b) Physical hazards of the material</p> <p>(c) Health hazards of the material</p> <p>(d) Signs and symptoms of exposure</p> <p>(e) Routes of entry</p> <p>(f) Permissible exposure limits</p> <p>(g) Responsible party contact</p> <p>(h) Precautions for safe handling (including hygiene practices, protective measures, and procedures for cleanup of spills and leaks)</p> <p>(i) Applicable control measures, including personal protective equipment</p> <p>(j) Emergency and first-aid procedures</p> <p style="text-align: right;">(5.2.2)</p>				
The candidate shall:	S	U	S	U
a) Identify two ways to obtain an MSDS in an emergency				
b) Identify physical and chemical characteristics				
c) Identify physical hazards of the material				
d) Identify health hazards of the material				
e) Identify the signs and symptoms of exposure				

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Material Safety Data Sheet Worksheet

Using the Material Safety Data Sheet for _____
provided to answer the following questions:

1. What are two ways to obtain an MSDS during an emergency?

- _____
- _____

Identification

2. What other names or identities does this product ship as? _____

3. What is its CAS#? _____

4. What is the UN # and hazard class? _____

Physical and Chemical Characteristics

5. What is its appearance and odor? _____

6. What is its boiling point? _____

7. What is its freezing point? _____

8. What is its Specific Gravity? _____

9. Is that as a solid, liquid or gas? _____

10. What is its Vapor Density? _____

- Will it sink or float when released? _____

11. Is there an associated fire hazard? _____

- If so, describe it: _____

12. What is the flash point and ignition temperature of this product/chemical?

13. What is the expansion ratio of this product/chemical? _____

14. What is the pH? _____

Physical Hazards

15. What are the primary physical hazards associated with this product/chemical?

Health Hazards

16. Is this product/chemical a carcinogen? _____

17. Is this product/chemical a teratogen or mutagen? If so, which? _____

18. Is this product/chemical a radioactive? _____

19. Are there any special health safety precautions that must be observed? If so, what are they? _____

Signs & Symptoms of Exposure

20. What are the signs and symptoms of exposure to this product/chemical?

Routes of Entry

21. What are the primary routes of exposure? _____

Permissible Exposure Limits

22. What is the PEL? _____

23. What is the STEL? _____

24. What is the IDLH? _____

25. What is the LD₅₀ or LC₅₀? _____

Responsible Party Contact Information

26. Who is the shipper? _____

- What is their phone number? _____

27. Who is the manufacture? _____

- What is their phone number? _____

28. In case of emergency who do you call? _____

- What is their phone number? _____

Precautions

29. What materials are incompatible or reactive with this product/chemical?

Hygiene Practices

30. What hygiene practices are necessary when dealing with this product/chemical?

Protective Measures

31. What protective measures/actions should be followed with this product/chemical?

Cleanup Procedures

32. What cleanup protocols should be utilized when mitigating a release or spill of this product/chemical? _____

Control Measures

33. What control measures should be employed when there is a spill or release of this product/chemical? _____

34. What firefighting considerations are there when responding to a fire involving this product/chemical? _____

Protective Equipment

35. What is the recommended personal protective equipment recommendation for this product/chemical? _____

Emergency/First Aid Procedures

36. What first aid procedures should be used for an exposure to this product/chemical?

TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

ANALYZING THE INCIDENT
Estimating the Size of an Endangered Area
Skill #5

PERFORMANCE STANDARD

Section 602

NFPA 472 5.2.4 (1), (2)

Operations

OBJECTIVE

Given scenarios involving hazardous materials/WMD incidents, the operations level responder shall estimate the potential harm within the endangered area at each incident and shall meet the following requirements:

- (1) Identify a resource for determining the size of an endangered area of a hazardous materials/WMD incident.
- (2) Given the dimensions of the endangered area and the surrounding conditions at a hazardous materials/WMD incident, estimate the number and type of exposures within that endangered area.

INSTRUCTIONS - procedures for achieving the objective

Given the most current edition of the *Emergency Response Guidebook*, a map or area description and a scenario involving a hazardous materials incident, you shall identify the size of an endangered area and estimate the number and type of exposures within that endangered area. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Emergency Response Guidebook, most current edition

Map or narrative description of an incident area

A scenario involving a hazardous materials incident

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
 Performance Standards

ANALYZING THE INCIDENT
 Estimating the Size of an Endangered Area
Skill #5

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
ANALYZING THE INCIDENT-Skill Number #5				
Given scenarios involving hazardous materials/WMD incidents, the operations level responder shall estimate the potential harm within the endangered area at each incident and shall meet the following requirements: (1) Identify a resource for determining the size of an endangered area of a hazardous materials/WMD incident. (2) Given the dimensions of the endangered area and the surrounding conditions at a hazardous materials/WMD incident, estimate the number and type of exposures within that endangered area. (5.2.4)				
The candidate shall:	S	U	S	U
a) Using the <i>Emergency Response Guidebook</i> , identify the size of the endangered area for the hazardous materials incident in the scenario				
b) Estimate the number of people located in the endangered area				
c) Identify type of environment (lakes, rivers and streams; urban, rural, etc.)				
d) Identify the type of property within the endangered area based on the scenario or map/area provided (schools, hospital, dwellings, nursing homes, etc.)				
e) Identify the significance the time of day or weather may play if applicable				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Operations

Performance Standards

IMPLEMENTING THE PLANNED RESPONSE

Establishing Scene Control Zones and Implementing Public Protective Actions

Skill #6

PERFORMANCE STANDARD

Section 602

NFPA 472 5.4.1 (1), (2), (3), (4), (5), (6)

Operations

OBJECTIVE

Given two scenarios involving hazardous materials/WMD incidents, the operations level responder shall identify how to establish and enforce scene control, including control zones and emergency decontamination, and communications between responders and to the public and shall meet the following requirements:

- (1) Identify the procedures for establishing scene control through control zones.
- (2) Identify the criteria for determining the locations of the control zones at hazardous materials/WMD incidents.
- (3) Identify the basic techniques for the following protective actions at hazardous materials/WMD incidents:
 - (a) Evacuation
 - (b) Sheltering-in-place
- (4) Demonstrate the ability to perform emergency decontamination.
- (5) Identify the items to be considered in a safety briefing prior to allowing personnel to work at the following:
 - (a) Hazardous material incidents
 - (b) Hazardous materials/WMD incidents involving criminal activities
- (6) Identify the procedures for ensuring coordinated communication between responders and to the public.

INSTRUCTIONS - procedures for achieving the objective

Given a scenario involving a hazardous materials/WMD incident, an *Emergency Response Guidebook*, and a MSDS, you shall establish scene control zones and implement public protective actions. Additionally, using provided emergency response and hazardous materials response equipment, establish emergency decontamination capability. You must conduct a safety briefing with response personnel and communicate with the public concerning protective actions. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing. The candidate must participate in at least two scenario evolutions.

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

PREPARATION & EQUIPMENT

Emergency Response Guidebook

MSDS

Emergency response and hazardous materials response equipment

Incident action plan

Site safety plan

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

IMPLEMENTING THE PLANNED RESPONSE
Establishing Scene Control Zones and Implementing Public Protective Actions
Skill #6

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS	<u>TEST</u>		<u>RETEST</u>	
IMPLEMENTING THE PLANNED RESPONSE Skill Number #6	S	U	S	U
<p>Given two scenarios involving hazardous materials /WMD incidents, the operations level responder shall identify how to establish and enforce scene control, including control zones and emergency decontamination, and communications between responders and to the public and shall meet the following requirements:</p> <ol style="list-style-type: none"> (1) Identify the procedures for establishing scene control through control zones. (2) Identify the criteria for determining the locations of the control zones at hazardous materials/WMD incidents. (3) Identify the basic techniques for the following protective actions at hazardous materials/WMD incidents: <ol style="list-style-type: none"> (a) Evacuation (b) Sheltering-in-place (4) Demonstrate the ability to perform emergency decontamination. (5) Identify the items to be considered in a safety briefing prior to allowing personnel to work at the following: <ol style="list-style-type: none"> (a) Hazardous material incidents (b) Hazardous materials/WMD incidents involving criminal activities (6) Identify the procedures for ensuring coordinated communication between responders and to the public. <p style="text-align: right;">(5.4.1)</p>				

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
 Performance Standards

The candidate shall:	S	U	S	U
a) Identify and establish scene control zones: <ul style="list-style-type: none"> • Hot zone • Warm zone • Cold zone 				
b) Determine appropriate public protective actions to be implemented				
c) Implement public protective actions: <ul style="list-style-type: none"> • Evacuation and/or shelter-in-place 				
d) Establish emergency decontamination capability				
e) Using an incident action plan and a site safety plan, conduct a safety briefing				
f) Communicate information concerning public protective actions with the public				

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____ Certifying Examiner	_____ Date	Overall Skill Sheet Score Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

EVALUATING PROGRESS
Communicating the Status of the Planned Response
Skill # 7

PERFORMANCE STANDARD

Section 602

NFPA 472 5.5.2 (1), (2)

Operations

OBJECTIVE

Given two scenarios involving hazardous materials/WMD incidents, including the incident action plan, the operations level responder shall communicate the status of the planned response through the normal chain of command and shall meet the following requirements:

- (1) Identify the methods for communicating the status of the planned response through the normal chain of command.
- (2) Identify the methods for immediate notification of the incident commander and other response personnel about critical emergency conditions at the incident.

INSTRUCTIONS - procedures for achieving the objective

Given scenarios involving hazardous materials/WMD incidents, including the incident action plan; you shall communicate the status of the planned response through the normal chain of command and identify the methods for immediate notification of the incident commander and other response personnel about critical emergency conditions at the incident. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing. The candidate must participate in at least two scenario evolutions.

PREPARATION & EQUIPMENT

Hazardous materials incident scenarios
Standard Operating Procedures per AHJ

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
 Performance Standards

EVALUATING PROGRESS
 Communicating the Status of the Planned Response
Skill #7

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Evaluating Progress -Skill Number #7				
Given two scenarios involving hazardous materials/WMD incidents, including the incident action plan, the operations level responder shall communicate the status of the planned response through the normal chain of command and shall meet the following requirements: (1) Identify the methods for communicating the status of the planned response through the normal chain of command. (2) Identify the methods for immediate notification of the incident commander and other response personnel about critical emergency conditions at the incident. (5.5.2)				
The candidate shall:	S	U	S	U
a) Verbally identifies the methods for communicating the status of the planned response to the incident commander through the normal chain of command				
b) Verbally identifies the methods for immediate notification of the incident commander and other response personnel about critical emergency conditions at the incident				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations – Mission Specific Competencies
Performance Standards

Implementing the Planned Response
Donning, Working in, and Doffing Personal Protective Equipment
Skill #1

PERFORMANCE STANDARD

Section 603

**NFPA 472 6.2.1.2(1), (3); 6.2.4.1 (1), (2), (3), (5);
6.2.5.1**

Operations-Mission Specific

OBJECTIVE

6.2.1.2 The goal of the competencies in this section shall be to provide the operations level responder assigned to use personal protective equipment with the knowledge and skills to perform the following tasks safely and effectively:

- (1) Plan a response within the capabilities of personal protective equipment provided by the AHJ in order to perform mission specific tasks assigned.
- (3) Terminate the incident by completing the reports and documentation pertaining to personal protective equipment.

6.2.4.1 Given the personal protective equipment provided by the AHJ, the operations level responder assigned to use personal protective equipment shall demonstrate the ability to don, work in, and doff the equipment provided to support mission-specific tasks and shall meet the following requirements:

- (1) Describe at least three safety procedures for personnel wearing protective clothing.
- (2) Describe at least three emergency procedures for personnel wearing protective clothing.
- (3) Demonstrate the ability to don, work in, and doff personal protective equipment provided by the AHJ.
- (5) Describe the maintenance, testing, inspection, storage, and documentation procedures for personal protective equipment provided by the AHJ according to the manufacturer's specifications and recommendations.

6.2.5.1 Given a scenario involving a hazardous materials/WMD incident, the operations level responder assigned to use personal protective equipment shall identify and complete the reporting and documentation requirements consistent with the emergency response plan or standard operating procedures regarding personal protective equipment.

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

INSTRUCTIONS - procedures for achieving the objective

Given the personal protective equipment provided by the AHJ, you shall perform the following tasks:

- (1) Describe at least three safety procedures for personnel wearing protective clothing.
- (2) Describe at least three emergency procedures for personnel wearing protective clothing.
- (3) Demonstrate the ability to don, work in, and doff personal protective equipment provided by the AHJ.
- (4) Describe the maintenance, testing, inspection, storage, and documentation procedures for personal protective equipment provided by the AHJ according to the manufacturer's specifications and recommendations.

You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing. Programs must perform the inspection of all ensembles in their current inventory. If a program doesn't require Level A suits, then they only need to meet the requirements for Level B, C & D ensembles.

PREPARATION & EQUIPMENT

Personal protective equipment provided by the AHJ
Structural firefighter protective clothing
Splash protective chemical clothing/equipment
Vapor protective clothing/equipment (AHJ)
Positive pressure self contained breathing apparatus
Air purifying respirators (AHJ)
Supplied air respirators (AHJ)

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations – Mission Specific Competencies
 Performance Standards

Implementing the Planned Response
 Donning, Working in, and Doffing Personal Protective Equipment
Skill #1

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS – MISSION SPECIFIC COMPETENCIES	<u>TEST</u>		<u>RETEST</u>	
Implementing the Planned Response-Skill Number #1	S	U	S	U
<p>The goal of the competencies in this section shall be to provide the operations level responder assigned to use personal protective equipment with the knowledge and skills to perform the following tasks safely and effectively:</p> <ul style="list-style-type: none"> (1) Plan a response within the capabilities of personal protective equipment provided by the AHJ in order to perform mission specific tasks assigned. (3) Terminate the incident by completing the reports and documentation pertaining to personal protective equipment <p style="text-align: right;">(6.2.1.2)</p> <p>Given the personal protective equipment provided by the AHJ, the operations level responder assigned to use personal protective equipment shall demonstrate the ability to don, work in, and doff the equipment provided to support mission-specific tasks and shall meet the following requirements:</p> <ul style="list-style-type: none"> (1) Describe at least three safety procedures for personnel wearing protective clothing. (2) Describe at least three emergency procedures for personnel wearing protective clothing. (3) Demonstrate the ability to don, work in, and doff personal protective equipment provided by the AHJ. (5) Describe the maintenance, testing, inspection, storage, and documentation procedures for personal protective equipment provided by the AHJ according to the manufacturer's specifications and recommendations. <p style="text-align: right;">(6.2.4.1)</p>				

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

Given a scenario involving a hazardous materials/WMD incident, the operations level responder assigned to use personal protective equipment shall identify and complete the reporting and documentation requirements consistent with the emergency response plan or standard operating procedures regarding personal protective equipment. (6.2.5.1)				
	S	U	S	U
a) Describe at least three safety procedures for personnel wearing protective clothing.				
b) Describe at least three emergency procedures for personnel wearing protective clothing.				
c) Demonstrate the ability to don, work in, and doff personal protective equipment provided by the AHJ.				
• Level A protective ensemble (if applicable, per AHJ)				
• Level B protective ensemble				
• Level C protective ensemble				
• Level D protective ensemble				
d) Describe the maintenance, testing, inspection, storage, and documentation procedures for personal protective equipment provided by the AHJ according to the manufacturer's specifications and recommendations.				
e) Identify and complete the reporting and documentation requirements consistent with the emergency response plan or standard operating procedures regarding personal protective equipment.				

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations – Mission Specific Competencies
Performance Standards

Certifying Examiner	Date	Overall Skill Sheet Score
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>
Re-Test Certifying Examiner	Date	Overall Skill Sheet Re-Test Score
		Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations – Mission Specific Competencies
Performance Standards

Implementing the Planned Response
Establishing and Utilizing a Technical Decontamination Corridor
Skill #2

PERFORMANCE STANDARD

Section 603

NFPA 472 6.2.1.2(2); 6.2.4.1(4); 6.6.4.2

Operations-Mission Specific

OBJECTIVE

6.2.1.2 The goal of the competencies in this section shall be to provide the operations level responder assigned to use personal protective equipment with the knowledge and skills to perform the following tasks safely and effectively:

- (2) Implement the planned response consistent with the standard operating procedures and site safety and control plan by donning, working in, and doffing personal protective equipment provided by the AHJ.

6.2.4.1 Given the personal protective equipment provided by the AHJ, the operations level responder assigned to use personal protective equipment shall demonstrate the ability to don, work in, and doff the equipment provided to support mission-specific tasks and shall meet the following requirements:

- (4) Demonstrate local procedures for responders undergoing the technical decontamination process.

6.6.4.2 The operations level responder assigned to perform product control shall describe local procedures for going through the technical decontamination process.

INSTRUCTIONS - procedures for achieving the objective

Given a scenario and the personal protective equipment, emergency response and hazardous materials response equipment including decontamination equipment provided by the AHJ, you shall demonstrate local procedures for responders undergoing the technical decontamination process. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Hazardous materials incident scenario

Personal protective equipment provided by the AHJ

Emergency response and hazardous materials response equipment

Decontamination equipment

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

Implementing the Planned Response
Establishing and Utilizing a Technical Decontamination Corridor
Skill #2

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS – MISSION SPECIFIC COMPETENCIES	<u>TEST</u>		<u>RETEST</u>	
Implementing the Planned Response -Skill Number #2	S	U	S	U
<p>The goal of the competencies in this section shall be to provide the operations level responder assigned to use personal protective equipment with the knowledge and skills to perform the following tasks safely and effectively:</p> <p style="padding-left: 40px;">(2) Implement the planned response consistent with the standard operating procedures and site safety and control plan by donning, working in, and doffing personal protective equipment provided by the AHJ.</p> <p style="text-align: right;">(6.2.1.2)</p> <p>Given the personal protective equipment provided by the AHJ, the operations level responder assigned to use personal protective equipment shall demonstrate the ability to don, work in, and doff the equipment provided to support mission-specific tasks and shall meet the following requirements:</p> <p style="padding-left: 40px;">(4) Demonstrate local procedures for responders undergoing the technical decontamination process.</p> <p style="text-align: right;">(6.2.4.1)</p> <p>The Operations level responder assigned to perform product control shall describe local procedures for going through the technical decontamination process.</p> <p style="text-align: right;">(6.6.4.2)</p>				
Based on the given scenario, the candidate shall:	S	U	S	U
a) Select the appropriate decontamination protocol				
b) Properly set up a decontamination corridor				

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations – Mission Specific Competencies
 Performance Standards

c) Select the appropriate PPE/CPC for the decontamination team				
d) Conduct the technical decontamination process				
e) Maintain proper safety control measures at all times				
f) Implement local policies and procedures per AHJ				

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

<hr/>	<hr/>	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
<hr/>	<hr/>	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations – Mission Specific Competencies
Performance Standards

Planning the Response
Identifying Product Control Options
Skill #3

PERFORMANCE STANDARD

Section 603

NFPA 472 6.6.3.1 (1), (2); 6.6.1.2.2 (1)

Operations-Mission Specific

OBJECTIVE

Given examples of hazardous materials/WMD incidents, the operations level responder assigned to perform product control shall identify the options for each response objective and shall meet the following requirements as prescribed by the AHJ:

- (1) Identify the options to accomplish a given response objective.
- (2) Identify the purpose for and the procedures, equipment, and safety precautions associated with each of the following control techniques:
 - (a) Absorption
 - (b) Adsorption
 - (c) Damming
 - (d) Diking
 - (e) Dilution
 - (f) Diversion
 - (g) Remote valve shutoff
 - (h) Retention
 - (i) Vapor dispersion
 - (j) Vapor suppression

When responding to hazardous materials/WMD incidents, the operations level responder assigned to perform product control shall be able to perform the following tasks:

- (1) Plan an initial response within the capabilities and competencies of available personnel, personal protective equipment, and control equipment and in accordance with the emergency response plan or standard operating procedures by completing the following tasks:
 - (a) Describe the control options available to the operations level responder.
 - (b) Describe the control options available for flammable liquid and flammable gas incidents.

INSTRUCTIONS - procedures for achieving the objective

I will give you examples of hazardous materials/WMD incidents; you shall identify the options for product control for each response objective according to the following requirements as prescribed by the AHJ:

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TEXAS COMMISSION ON FIRE PROTECTION
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- (1) Identify the options to accomplish a given response objective.
- (2) Identify the purpose for and the procedures, equipment, and safety precautions associated with each of the following control techniques:
 - (a) Absorption
 - (b) Adsorption
 - (c) Damming
 - (d) Diking
 - (e) Dilution
 - (f) Diversion
 - (g) Remote valve shutoff
 - (h) Retention
 - (i) Vapor dispersion
 - (j) Vapor suppression

- (3) Plan an initial response within the capabilities and competencies of available personnel, personal protective equipment, and control equipment and in accordance with the emergency response plan or standard operating procedures by completing the following tasks:
 - (a) Describe the control options available to the operations level responder.
 - (b) Describe the control options available for flammable liquid and flammable gas incidents.

Given a hazardous materials incident scenario you will identify the most appropriate method or methods to safely control the release in a defensive fashion. Additionally, describe the procedures, equipment, and safety precautions required to perform those procedures. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Hazardous materials incident scenarios

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations – Mission Specific Competencies
 Performance Standards

Planning the Response
 Identifying Product Control Options
Skill #3

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS – MISSION SPECIFIC COMPETENCIES	TEST		RETEST	
	S	U	S	U
Planning the Response -Skill Number #3				
<p>Given examples of hazardous materials/WMD incidents, the operations level responder assigned to perform product control shall identify the options for each response objective and shall meet the following requirements as prescribed by the AHJ:</p> <ul style="list-style-type: none"> (1) Identify the options to accomplish a given response objective. (2) Identify the purpose for and the procedures, equipment, and safety precautions associated with each of the following control techniques: <ul style="list-style-type: none"> (a) Absorption (b) Adsorption (c) Damming (d) Diking (e) Dilution (f) Diversion (g) Remote valve shutoff (h) Retention (i) Vapor dispersion (j) Vapor suppression <p style="text-align: right;">(6.6.3.1)</p> <p>When responding to hazardous materials/WMD incidents, the operations level responder assigned to perform product control shall be able to perform the following tasks:</p> <ul style="list-style-type: none"> (3) Plan an initial response within the capabilities and competencies of available personnel, personal protective equipment, and control equipment and in accordance with the emergency response plan or standard operating procedures by completing the 				

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
 Performance Standards

following tasks: (a) Describe the control options available to the operations level responder. (b) Describe the control options available for flammable liquid and flammable gas incidents. <p style="text-align: right;">(6.6.1.2.2)</p>				
Based on the given scenario, the candidate shall:	S	U	S	U
a) Identify the most appropriate method or methods of product control				
b) Describe the procedures for implementing the method or methods of product control				
c) Identify the equipment required to implement the method or methods of product control				
d) Describe the safety precautions pertinent to implementing the method or methods of product control				

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations- Mission Specific Competencies
Performance Standards

Implementing the Planned Response
Implementing Product Control Options – Foam Operations
Skill # 4

PERFORMANCE STANDARD

Section 603

NFPA 472 6.6.4.1(1), (2)

Operations-Mission Specific

OBJECTIVE

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

- (1) Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD.
- (2) Identify the characteristics and applicability of the following Class B foams if supplied by the AHJ:
 - (a) Aqueous film-forming foam (AFFF)
 - (b) Alcohol-resistant concentrates
 - (c) Fluoroprotein
 - (d) High-expansion foam

INSTRUCTIONS - procedures for achieving the objective

Given firefighting foam or training foam and foam generating equipment, develop and apply firefighting foam or foam agents to a spill or fire involving hazardous materials. You will be operating as part of a team and be responsible for maintaining a safe operational environment at all times. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Firefighting foam or training foam provided by the AHJ

Foam agents (i.e. Microblaze) provided by the AHJ if applicable

Foam generation equipment (i.e. pumping apparatus, hose, foam eductors, nozzles, expansion tubes, etc.)

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TEXAS COMMISSION ON FIRE PROTECTION
Operations
Performance Standards

Implementing the Planned Response
Implementing Product Control Options – Foam Operations
Skill # 4

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS- MISSION SPECIFIC COMPETENCIES	TEST		RETEST	
	S	U	S	U
Implementing the Planned Response - Skill Number #4	S	U	S	U
<p>Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:</p> <p>(1) Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD.</p> <p>(2) Identify the characteristics and applicability of the following Class B foams <u>if</u> supplied by the AHJ:</p> <p>(a) Aqueous film-forming foam (AFFF) (b) Alcohol-resistant concentrates (c) Fluoroprotein (d) High-expansion foam</p> <p style="text-align: right;">(6.6.4.1)</p>				
The candidate shall:	S	U	S	U
a) Select the foam or agent to be applied and describe why the selection is the most appropriate				
b) Select the appropriate foam generating tools and equipment to generate foam streams				
c) Properly assemble the foam agent, tools, and equipment to generate foam streams				
d) Generate and apply foam streams				
e) Operate as part of a team				
f) Maintains safe operating environment				

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations- Mission Specific Competencies
Performance Standards

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations - Mission Specific Competencies
Performance Standards

Implementing the Planned Response
Implementing Product Control Options
Skill #5

PERFORMANCE STANDARD

Section 603

NFPA 472 6.6.4.1(3)

Operations-Mission Specific

OBJECTIVE

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

- (3) Given the required tools and equipment, demonstrate how to perform the following control activities:
- (a) Absorption
 - (b) Adsorption
 - (c) Damming
 - (d) Diking
 - (e) Dilution
 - (f) Diversion
 - (g) Retention
 - (h) Remote valve shutoff
 - (i) Vapor dispersion
 - (j) Vapor suppression

INSTRUCTIONS - procedures for achieving the objective

Given a scenario and various tools and equipment, select and implement the most appropriate product control method based on the identified response objectives. You will be provided with tools and equipment and a team of responders to assist in implementing the product control method. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Hazardous materials incident scenario

Hazardous materials tools and equipment as supplied by the AHJ for implementation of hazardous materials product control measures.

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations - Mission Specific Competencies
 Performance Standards

Implementing the Planned Response
 Implementing Product Control Options
Skill #5

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS - MISSION SPECIFIC COMPETENCIES	<u>TEST</u>		<u>RETEST</u>	
Implementing the Planned Response - Skill Number #5	S	U	S	U
Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ: (3) Given the required tools and equipment, demonstrate how to perform the following control activities: (a) Absorption (b) Adsorption (c) Damming (d) Diking (e) Dilution (f) Diversion (g) Retention (h) Remote valve shutoff (i) Vapor dispersion (j) Vapor suppression <div style="text-align: right;">(6.6.4.1)</div>				
The candidate shall:	S	U	S	U
a) Identify the appropriate product control method(s)				
b) Select the appropriate tools and equipment required				
c) Implement the appropriate product control method(s)				
d) Operates as part of a team				
e) Utilize standard safety practices				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations - Mission Specific Competencies
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations - Mission Specific Competencies
Performance Standards

Implementing the Planned Response
Implementing Product Control Options – Highway Cargo Tanks Remote Shut-off
Skill #6

PERFORMANCE STANDARD

Section 603

NFPA 472 6.6.4.1(4)

Operations-Mission Specific

OBJECTIVE

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

- (4) Identify the location and describe the use of emergency remote shutoff devices on MC/DOT-306/406, MC/DOT-307/407, and MC-331 cargo tanks containing flammable liquids or gases.

INSTRUCTIONS - procedures for achieving the objective

Given diagrams or images of MC-306/DOT-406, MC-307/DOT-407 and MC-331 cargo tanks you shall identify the location and describe the use of the mechanical, hydraulic, and air emergency remote shutoff devices on each of the cargo tanks. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Images or diagrams of:

1. MC-306/DOT-406 (Nonpressure) cargo tanks and remote shut-off devices
2. MC-307/DOT-407 (Low pressure) cargo tanks and remote shut-off devices
3. MC-331 (High pressure) cargo tanks and remote shut-off devices

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations - Mission Specific Competencies
 Performance Standards

Implementing the Planned Response
 Implementing Product Control Options – Highway Cargo Tanks Remote Shut-off
Skill #6

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS - MISSION SPECIFIC COMPETENCIES	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Implementing the Planned Response - Skill Number #6	S	U	S	U
Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ: (4) Identify the location and describe the use of emergency remote shutoff devices on MC/DOT-306/406, MC/DOT-307/407, and MC-331 cargo tanks containing flammable liquids or gases. (6.6.4.1)				
The candidate shall:	S	U	S	U
a) Identify the location of remote shut-off devices on MC-306/DOT-406 (Nonpressure) cargo tanks				
b) Identify the location of remote shut-off devices on MC-307/DOT-407 (Low pressure) cargo tanks				
c) Identify the location of remote shut-off devices on MC-331 (High pressure) cargo tanks				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations - Mission Specific Competencies
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations - Mission Specific Competencies
Performance Standards

Implementing the Planned Response
Implementing Product Control Options – Fixed Facility Remote Shut-off Devices
Skill #7

PERFORMANCE STANDARD

Section 603

NFPA 472 6.6.4.1(5)

Operations-Mission Specific

OBJECTIVE

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

(5) Describe the use of emergency remote shutoff devices at fixed facilities.

INSTRUCTIONS - procedures for achieving the objective

Given a diagram of a fixed facility remote shut-off device, describe its operation and use. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The candidate will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Diagrams or images of fixed facility remote shut-off devices

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations - Mission Specific Competencies
 Performance Standards

Implementing the Planned Response
 Implementing Product Control Options – Fixed Facility Remote Shut-off Devices
Skill #7

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS OPERATIONS - MISSION SPECIFIC COMPETENCIES	<u>TEST</u>		<u>RETEST</u>	
	S	U	S	U
Implementing the Planned Response - Skill Number #7	S	U	S	U
Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ: (5) Describe the use of emergency remote shutoff devices at fixed facilities. (6.6.4.1)				
The candidate shall:	S	U	S	U
a) Identify fixed facility remote shut-off device				
b) Describe fixed facility remote shut-off device operation				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations - Mission Specific Competencies
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Analyzing the Incident

Containers Identification

Skill #1

PERFORMANCE STANDARD

Section 604

NFPA 472 7.2.1

TECHNICIAN

OBJECTIVE

Given examples of various containers for hazardous materials/WMD, the hazardous materials technician shall identify each container by name and specification and identify the typical contents by name and hazard class.

Given examples of the following railroad cars, the hazardous materials technician shall identify the container by name and specification and identify the typical contents by name and hazard class:

- (1) Cryogenic liquid tank cars
- (2) Nonpressure tank cars
- (3) Pneumatically unloaded hopper cars
- (4) Pressure tank cars

Given examples of the following intermodal tanks, the hazardous materials technician shall identify the container by name and specification and identify the typical contents by name and hazard class:

- (1) Nonpressure intermodal tanks
 - (a) IM-101 portable tanks (IMO Type 1 internationally)
 - (b) IM-102 portable tanks (IMO Type 2 internationally)
- (2) Pressure intermodal tank (DOT Specification 51; IMO Type 5 internationally)
- (3) Specialized intermodal tanks
 - (a) Cryogenic intermodal tanks (DOT Specification 51; IMO Type 7 internationally)
 - (b) Tube modules

Given examples of the following cargo tanks, the hazardous materials technician shall identify the container by name and specification and identify the typical contents by name and hazard class:

- (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

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TEXAS COMMISSION ON FIRE PROTECTION

HAZARDOUS MATERIALS TECHNICIAN

Performance Standards

(7) Nonpressure liquid tanks

Given examples of the following facility storage tanks, the hazardous materials technician shall identify the container by name and identify the typical contents by name and hazard class:

- (1) Cryogenic liquid tank
- (2) Nonpressure tank
- (3) Pressure tank

Given examples of the following nonbulk packaging, the hazardous materials technician shall identify the package by name and identify the typical contents by name and hazard class:

- (1) Bags
- (2) Carboys
- (3) Cylinders
- (4) Drums

Given examples of the following radioactive materials packages, the hazardous materials technician shall identify the container/package by name and identify the typical contents by name:

- (1) Excepted
- (2) Industrial
- (3) Type A
- (4) Type B
- (5) Type C

Given examples of three facility and three transportation containers, the hazardous materials technician shall identify the approximate capacity of each container.

Using the markings on the container, the hazardous materials technician shall identify the capacity (by weight or volume) of the following examples of transportation vehicles:

- (1) Cargo tanks
- (2) Tank cars
- (3) Tank containers

Using the markings on the container and other available resources, the hazardous materials technician shall identify the capacity (by weight or volume) of each of the following facility containers:

- (1) Cryogenic liquid tank
- (2) Nonpressure tank (general service or low-pressure tank)
- (3) Pressure tank

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

INSTRUCTIONS - procedures for achieving the objective

Given a worksheet or audio/visual presentation you shall identify the name of, type, capacity, and typical contents of each container represented. You will begin on my instructions to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

A worksheet or audio/visual presentation (i.e. PowerPoint Presentation) or an instructor prepared worksheet.

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Analyzing the Incident

Containers Identification

Skill #1

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
	S	U	S	U
Analyzing the Incident -Skill Number #1				
<p>Given examples of various containers for hazardous materials/WMD, the hazardous materials technician shall identify each container by name and specification and identify the typical contents by name and hazard class.</p> <p>Given examples of the following railroad cars, the hazardous materials technician shall identify the container by name and specification and identify the typical contents by name and hazard class:</p> <ul style="list-style-type: none"> (1) Cryogenic liquid tank cars (2) Nonpressure tank cars (3) Pneumatically unloaded hopper cars (4) Pressure tank cars <p>Given examples of the following intermodal tanks, the hazardous materials technician shall identify the container by name and specification and identify the typical contents by name and hazard class:</p> <ul style="list-style-type: none"> (1) Nonpressure intermodal tanks <ul style="list-style-type: none"> (a) IM-101 portable tanks (IMO Type 1 internationally) (b) IM-102 portable tanks (IMO Type 2 internationally) (2) Pressure intermodal tank (DOT Specification 51; IMO Type 5 internationally) (3) Specialized intermodal tanks <ul style="list-style-type: none"> (a) Cryogenic intermodal tanks (DOT Specification 51; IMO Type 7 internationally) (b) Tube modules <p>Given examples of the following cargo tanks, the hazardous</p>				

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

<p>materials technician shall identify the container by name and specification and identify the typical contents by name and hazard class:</p> <ol style="list-style-type: none"> (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) Nonpressure liquid tanks <p>Given examples of the following facility storage tanks, the hazardous materials technician shall identify the container by name and identify the typical contents by name and hazard class:</p> <ol style="list-style-type: none"> (1) Cryogenic liquid tank (2) Nonpressure tank (3) Pressure tank <p>Given examples of the following nonbulk packaging, the hazardous materials technician shall identify the package by name and identify the typical contents by name and hazard class:</p> <ol style="list-style-type: none"> (1) Bags (2) Carboys (3) Cylinders (4) Drums <p>Given examples of the following radioactive materials packages, the hazardous materials technician shall identify the container/package by name and identify the typical contents by name:</p> <ol style="list-style-type: none"> (1) Excepted (2) Industrial (3) Type A (4) Type B (5) Type C <p>Given examples of three facility and three transportation containers, the hazardous materials technician shall identify the approximate capacity of each container. Using the markings on the container, the hazardous</p>				
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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

<p>materials technician shall identify the capacity (by weight or volume) of the following examples of transportation vehicles:</p> <ul style="list-style-type: none"> (1) Cargo tanks (2) Tank cars (3) Tank containers <p>Using the markings on the container and other available resources, the hazardous materials technician shall identify the capacity (by weight or volume) of each of the following facility containers:</p> <ul style="list-style-type: none"> (1) Cryogenic liquid tank (2) Nonpressure tank (general service or low-pressure tank) (3) Pressure tank <p style="text-align: right;">(7.2.1)</p>				
<p>The candidate shall:</p>	S	U	S	U
<p><u>Railroad Cars</u></p> <ul style="list-style-type: none"> 1. Identify the railcar examples provided 2. Identify the approximate capacity of the railcar examples 3. Identify a material(s) and hazard class(s) commonly transported in the railcar examples 				
<p><u>Intermodal</u></p> <ul style="list-style-type: none"> 1. Identify the intermodal container examples provided 2. Identify the approximate capacity of the container examples 3. Identify a material(s) and hazard class(s) commonly transported in the container examples 				
<p><u>Cargo Tank</u></p> <ul style="list-style-type: none"> 1. Identify the Highway Cargo Tanks provided 2. Identify the approximate capacity of the cargo tank examples 3. Identify a material(s) and hazard class(s) commonly transported in the cargo tank examples 				
<p><u>Fixed Facility</u></p> <ul style="list-style-type: none"> 1. Identify the fixed facility storage tanks provided 2. Identify a material(s) and hazard class(s) commonly stored in the storage tank examples 				
<p><u>Non-Bulk Packaging</u></p> <ul style="list-style-type: none"> 1. Identify the nonbulk container packaging provided 2. Identify the approximate capacity of the nonbulk container packaging 3. Identify a material(s) and hazard class(s) commonly 				

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Technician Container Identification Worksheet

RAILCAR TANK				
	Container Name	Container Capacity	Common Materials	Common Hazard Classes
1				
2				
3				
4				
5				
INTERMODAL TANK				
	Container Name/Spec.	Container Capacity	Common Materials	Common Hazard Classes
1				
2				
3				
4				
5				
HIGHWAY CARGO TANK				
	Container Name/Spec.	Container Capacity	Common Materials	Common Hazard Classes
1				
2				
3				
4				
5				
6				
7				
NON-BULK CONTAINER PACKAGING				
	Container Name	Container Capacity	Common Materials	Common Hazard Classes
1				
2				
3				
4				
5				
FIXED FACILITY STORAGE TANK				
	Container Name	Typical Contents		
1				
2				
3				
RADIOACTIVE MATERIAL PACKAGING				
	Container Name	Typical Contents		
1				
2				
3				
4				
5				

**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Analyzing the Incident

Sampling and Monitoring/Surveying Equipment

Skill #2

PERFORMANCE STANDARD

Section 604

NFPA 472 7.2.1.3.5, 7.2.1.5

TECHNICIAN

OBJECTIVE

Given three hazardous materials/WMD, one of which is a solid, one a liquid, and one a gas, and using the following monitoring equipment, test strips, and reagents, 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):

- (1) Carbon monoxide meter
- (2) Colorimetric tubes
- (3) Combustible gas indicator
- (4) Oxygen meter
- (5) Passive dosimeters
- (6) pH indicators and pH meters
- (7) Photoionization and flame ionization detectors
- (8) Radiation detection instruments
- (9) Reagents
- (10) Test strips
- (11) WMD detectors (chemical and biological)
- (12) Other equipment provided by the AHJ

The hazardous materials technician shall demonstrate methods for collecting samples of the following:

- (1) Gas
- (2) Liquid
- (3) Solid

INSTRUCTIONS - procedures for achieving the objective

Given a solid, a liquid, and a gas, you will demonstrate the appropriate method for collecting a sample for evaluation. You will select the appropriate type of monitoring equipment to classify or identify the material by using the instruments, reagents and test strips as provided by the AHJ. *(Example: if a sample is a liquid and has a pH of 2, it would be an acid. If it also had a LEL of 12%, it would also be a flammable liquid).* You will begin on my instruction to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

EXAMINERS NOTE:

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

1. Carbon monoxide meter*
2. Oxygen meter*
3. Combustible gas indicator*
4. Gas specific meters (AHJ)
5. Photoionization detector
6. Colorimetric tubes and pump
7. pH paper or electronic pH meter
8. Radiation detection instruments
9. Reagents (AHJ)
10. Test strips (AHJ)
11. Other monitoring detection equipment as provided by AHJ
12. Samples of hazardous materials (liquids, gases, and solids)
13. Sampling equipment (i.e. pipettes, spatulas, jars, vials, etc.)

*These can be single gas monitors or multi-gas monitors

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

Analyzing the Incident
 Sampling and Monitoring/Surveying Equipment
Skill #2

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Analyzing the Incident - Skill Number #2	S	U	S	U
Given three hazardous materials/WMD, one of which is a solid, one a liquid, and one a gas, and using the following monitoring equipment, test strips, and reagents, 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): <ul style="list-style-type: none"> (1) Carbon monoxide meter (2) Colorimetric tubes (3) Combustible gas indicator (4) Oxygen meter (5) Passive dosimeters (6) pH indicators and pH meters (7) Photoionization and flame ionization detectors (8) Radiation detection instruments (9) Reagents (10) Test strips (11) WMD detectors (chemical and biological) (12) Other equipment provided by the AHJ <p style="text-align: right;">(7.2.1.3.5, 7.2.1.5)</p>				
The candidate shall perform:	S	U	S	U
SAMPLE #1 (Liquid)				
1. Appropriately collect sample of material.				
2. Choose the correct instrument or instruments to survey/test the sample.				
List instrument(s) chosen: _____				

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

<p>3. Correctly classifies and/or identifies and quantifies the sample.</p> <p>Classification/identification of sample:_____</p> <p>Quantified results:_____</p>				
SAMPLE #2 (Solid)				
<p>1. Appropriately collect sample of material.</p>				
<p>2. Choose the correct instrument or instruments to survey/test the sample.</p> <p>List instrument(s) chosen:_____</p>				
<p>3. Correctly classifies and/or identifies and quantifies the sample.</p> <p>Classification/identification of sample:_____</p> <p>Quantified results:_____</p>				
SAMPLE #3 (Gas)				
<p>1. Appropriately collect sample of material.</p>				
<p>2. Choose the correct instrument or instruments to survey/test the sample.</p> <p>List instrument(s) chosen:_____</p>				
<p>3. Correctly classifies and/or identifies and quantifies the sample.</p> <p>Classification/identification of sample:_____</p> <p>Quantified results:_____</p>				

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Analyzing the Incident

Monitoring/Surveying/Detection Equipment Maintenance and Use

Skill #3

PERFORMANCE STANDARD

Section 604

NFPA 472 7.2.1.3.6

TECHNICIAN

OBJECTIVE

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.

INSTRUCTIONS - Procedures for achieving the objective

Given various monitoring, surveying and detection instruments/equipment, you will demonstrate the procedures for calibrating the instruments or verifying their calibration. You will also demonstrate how to use each instrument or type of test equipment provided. You will begin on my instructions to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

EXAMINER NOTE:

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

1. Carbon monoxide monitor*
2. Combustible gas indicator*
3. Oxygen monitor*
4. Gas specific monitors
5. Photoionization detector
6. Colorimetric tubes
7. Radiation survey equipment
8. Radiation dosimeters
9. pH papers/pH meters
10. Test strips
11. Reagents
12. Equipment to calibrate or verify calibration
13. Other instruments/equipment provided by AHJ

***These may be single gas or multi-gas monitors**

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Analyzing the Incident

Monitoring/Surveying/Detection Equipment Maintenance and Use

Skill #3

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	<u>TEST</u>		<u>RETEST</u>	
Analyzing the Incident - Skill Number #3	S	U	S	U
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. <p style="text-align: right;">(7.2.1.3.6)</p>				
The candidate shall perform:	S	U	S	U
1. Oxygen monitor a) In accordance with the manufacturer's instructions, calibrates monitor or verifies calibration b) Demonstrate proper use of the device				
2. Combustible Gas Indicator a) In accordance with the manufacturer's instructions, calibrates monitor or verifies calibration b) Demonstrate proper use of the device				
3. Carbon monoxide monitor a) In accordance with the manufacturer's instructions, calibrates monitor or verifies calibration b) Demonstrate proper use of the device				
4. Gas specific monitor (i.e. hydrogen sulfide detector) a) In accordance with the manufacturer's instructions, calibrates monitor or verifies calibration b) Demonstrate proper use of the device				
5. Radiation survey instrument (i.e. Ludlum 2241-2 or CDV700 or CDV715) a) In accordance with the manufacturer's instructions, calibrates monitor or verifies calibration				

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

b) Demonstrate proper use of the device				
6. Radiation dosimeter a) In accordance with the manufacturer's instructions, calibrates monitor or verifies calibration b) Demonstrate proper use of the device				
7. pH paper and/or pH meter a) In accordance with the manufacturer's instructions, calibrates monitor or verifies calibration (for pH meter only) b) Demonstrate proper use of the device				
8. Colorimetric tubes/devices (i.e. Drager tubes) a) Use in accordance with the manufacturer's instructions b) Demonstrate proper use of the device				
9. Test strips or reagents a) Use in accordance with the manufacturer's instructions b) Demonstrate proper use of the device				
10. Photoionization detector a) In accordance with the manufacturer's instructions, calibrates monitor or verifies calibration b) Demonstrate proper use of the device				
11. Other monitoring, detection or survey equipment provided by the AHJ a) In accordance with the manufacturer's instructions, calibrates monitor or verifies calibration b) Demonstrate proper use of the device				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Analyzing the Incident

Collecting and Interpreting Hazard and Response Information

Skill #4

PERFORMANCE STANDARD

Section 604

NFPA 472 7.2.2, 7.2.2.4, 7.1.2.2(1)(e)

TECHNICIAN

OBJECTIVE

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.

Given a hazardous materials/WMD scenario and the associated reference materials, the hazardous materials technician shall identify the signs and symptoms of exposure to each material and the target organ effects of exposure to that material.

Additionally, the hazardous materials technician shall analyze a hazardous materials/WMD incident to determine the complexity of the problem and potential outcomes by estimating the size of an endangered area using computer modeling, monitoring equipment, or specialists in this field.

INSTRUCTIONS - procedures for achieving the objective

Given a hazardous materials incident/WMD scenario, you will collect and interpret hazard and response information utilizing provided printed and technical reference resources, computer databases and monitoring results. You shall identify the signs and symptoms of exposure for each material identified and the target organ effects of an exposure to that material. You will also analyze the incident to determine the complexity of the problem and potential outcomes by estimating the size of an endangered area using computer modeling, monitoring equipment, or specialists in this field. Given the data provided and using the information you have interpreted, you will develop an incident site safety plan and complete a product data sheet. You will begin on my instructions to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

1. Various hazardous materials/WMD incident scenarios

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

2. Various hazardous materials printed reference text (see reference list and equipment list).
3. Various hazardous materials electronic databases as provided by AHJ (i.e. WISER and/or CAMEO)
4. Access to a computer modeling specialist (this may be simulated by role play or a prepared narrative inject.)
5. Chemical data worksheet
6. Site safety plan worksheet (i.e. ICS form 208HM)

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

Analyzing the Incident

Collecting and Interpreting Hazard and Response Information

Skill #4

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	<u>TEST</u>		<u>RETEST</u>	
Analyzing the Incident- Skill Number #4	S	U	S	U
Given five hazardous materials/WMD scenarios and the associated reference materials, the hazardous materials technician shall identify the signs and symptoms of exposure to each material and the target organ effects of exposure to that material. 7.2.2, 7.2.2.4				
The hazardous materials technician shall analyze a hazardous materials/WMD incident to determine the complexity of the problem and potential outcomes by estimating the size of an endangered area using computer modeling, monitoring equipment, or specialists in this field. 7.1.2.2(1)(e)				
The candidate shall:	S	U	S	U
a) Uses a minimum of three reference sources				
b) Identifies signs and symptoms of exposure				
c) Identifies target organs affected				
d) Complete a chemical data worksheet for each chemical identified				
e) Using all data collected, complete a site safety plan*				

***At a minimum, the site safety plan should include the following information:**

1. Maximum exposure limits
2. Identifies hazards or conditions present
3. Level of PPE needed
4. Hazardous substance safe handling procedures
5. Identifies the need for a site map
6. Use of the "buddy system"
7. Backup personnel
8. Medical support
9. Safety officer

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Analyzing the Incident

Identifying Areas of Concern for PPA

Skill #5

PERFORMANCE STANDARD

Section 604

NFPA 472 7.2.5.4

TECHNICIAN

OBJECTIVE

Given examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, the hazardous materials technician shall determine the applicable public protective response options and the areas to be protected.

INSTRUCTIONS - procedures for achieving the objective

Given direct monitoring survey data and a map, you shall plot the coordinates of the readings on the map. After plotting the coordinates you will identify the area of greatest concern for implementing public protective actions. You shall also clearly determine the control zones (hot, warm, and cold) based on the information obtained if possible. The skill will end when you state or indicate to me that you have completed all the identified steps. You will begin on my instruction to start. Do you understand these instructions?

EXAMINERS NOTE:

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Hazardous materials/WMD incident scenario/response monitoring data

Grid map of area surrounding incident site

MSDS

Various hazardous materials printed reference text (see reference list and equipment list)

Various hazardous materials electronic databases as provided by AHJ (i.e. WISER and/or CAMEO)

Pencils, ruler, protractor

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

Analyzing the Incident
 Identifying Areas of Concern for PPA
Skill #5

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	<u>TEST</u>		<u>RETEST</u>	
Analyzing the Incident - Skill Number #5	S	U	S	U
Given three examples involving a hazardous materials/WMD release and the corresponding instrument monitoring readings, the hazardous materials technician shall determine the applicable public protective response options and the areas to be protected. <p style="text-align: right;">(7.2.5.4)</p>				
The candidate shall:	S	U	S	U
a) Properly plot instrumentation readings on a map based on the provided data				
b) Identify the area of concern for implementation of public protective actions				
c) If applicable, plot control zones for emergency response activities based on the data provided to include the: <ul style="list-style-type: none"> • Hot Zone • Warm Zone • Cold Zone 				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Planning the Response
Identifying Response Objectives
Skill #6

PERFORMANCE STANDARD

Section 604

NFPA 472 7.3.1, 7.3.2

TECHNICIAN

OBJECTIVE

Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall describe the response objectives for each problem.

Given an analysis of a hazardous materials/WMD incident, the hazardous materials technician shall be able to describe the steps for determining response objectives (defensive, offensive, and nonintervention).

Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall identify the possible response options (defensive, offensive, and nonintervention) by response objective for each problem.

The hazardous materials technician shall be able to identify the possible response options to accomplish a given response objective.

INSTRUCTIONS - Procedures for achieving the objective

Given at least two (2) simulated hazardous materials incidents, one a facility incident and one a transportation incident, the technician trainee shall:

- 1) Describe the response objectives for each incident,
- 2) Describe the steps for determining response objectives when given an analysis of an incident,
- 3) Identify the possible response options by response objective for each problem (defensive, offensive and nonintervention), including safety considerations.
- 4) Identify possible response options to accomplish a given response objective

You will begin on my instructions to start. When you indicate completion of your analysis and response planning, I will ask you a series of questions. The skill will end when you state or indicate to me that you have completed your verbal response to the questions asked. Do you understand these instructions?

EXAMINER NOTE

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing. When the examinee indicates completion of

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

the preparation tasks, ask the evaluation questions given on page two of this document. In the appropriate column, record your evaluation of the examinee's responses as either satisfactory (S) or unsatisfactory (U).

PREPARATION & EQUIPMENT

1. Hazardous materials/WMD incident scenarios (at least one scenario each must involve a facility incident or a transportation-related incident).
2. One "Response Objective Analysis Form" for each simulated incident.

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

Planning the Response
 Identifying Response Objectives
Skill #6

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Planning the Response - Skill Number #6	S	U	S	U
<p>Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall describe the response objectives for each problem.</p> <p>Given an analysis of a hazardous materials/WMD incident, the hazardous materials technician shall be able to describe the steps for determining response objectives (defensive, offensive, and nonintervention).</p> <p>Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall identify the possible response options (defensive, offensive, and nonintervention) by response objective for each problem.</p> <p>The hazardous materials technician shall be able to identify the possible response options to accomplish a given response objective.</p> <p style="text-align: right;">(7.3.1, 7.3.2)</p>				
The trainee shall describe for the transportation incident:	S	U	S	U
a) Would you describe for me the response objective(s) for this incident?				
b) Would you describe the steps taken to determine the response objectives?				
c) Will this be a defensive, offensive, or nonintervention response?				
d) What possible action items have you identified to accomplish each response objective, including safety considerations?				
e) What possible response options will be required to accomplish your given response objectives?				

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards**

The trainee shall describe for the facility incident:	S	U	S	U
a) Would you describe for me the response objective(s) for this incident?				
b) Would you describe the steps taken to determine the response objectives?				
c) Will this be a defensive, offensive, or nonintervention response?				
d) What possible action items have you identified to accomplish each response objective, including safety considerations?				
e) What possible response options will be required to accomplish your given response objectives?				

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____
Certifying Examiner	Date
_____	_____
Re-Test Certifying Examiner	Date

Overall Skill Sheet Score
Pass <input type="checkbox"/> Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score
Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

HazMat Technician #6

**Response Objective Analysis Form
(Examinee Worksheet)**

This worksheet is provided to the **EXAMINEE** to assist in identifying the stage of the incident and appropriate response objectives. Record the possible action options to accomplish each identified response objective.

TYPE OF INCIDENT: FACILITY TRANSPORTATION

CONTAINMENT SYSTEM ID: _____ MATERIAL: _____

INCIDENT STAGE (EVENT SEQUENCE)

STRESS	BREACH	RELEASE	ENGULF	CONTACT	HARM
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RESPONSE OBJECTIVES

CHANGE APPLIED STRESSES	CHANGE BREACH SIZE	CHANGE QUANTITY RELEASE	CHANGE DANGER ZONE SIZE	CHANGE EXPOSURES CONTACTED	CHANGE SEVERITY OF HARM
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RESPONSE OPTIONS AND SAFETY CONSIDERATIONS

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

HazMat Technician #6

**Response Objective Analysis Form
(Examinee Worksheet)**

This worksheet is provided to the **EXAMINEE** to assist in identifying the stage of the incident and appropriate response objectives. Record the possible action options to accomplish each identified response objective.

TYPE OF INCIDENT: FACILITY TRANSPORTATION

CONTAINMENT SYSTEM ID: _____ MATERIAL: _____

INCIDENT STAGE (EVENT SEQUENCE)

STRESS	BREACH	RELEASE	ENGULF	CONTACT	HARM
--------	--------	---------	--------	---------	------

RESPONSE OBJECTIVES

CHANGE APPLIED STRESSES	CHANGE BREACH SIZE	CHANGE QUANTITY RELEASE	CHANGE DANGER ZONE SIZE	CHANGE EXPOSURES CONTACTED	CHANGE SEVERITY OF HARM
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RESPONSE OPTIONS AND SAFETY CONSIDERATIONS

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Planning the Response

Selecting Chemical Protective Clothing

Skill #7

PERFORMANCE STANDARD

Section 604

NFPA 472 7.3.3, 7.3.3.4.6

TECHNICIAN

OBJECTIVE

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.

Given three examples of various hazardous materials, the hazardous materials technician shall determine the protective clothing construction materials for a given action option using chemical compatibility charts.

INSTRUCTIONS - procedures for achieving the objective

You will be provided the name of three hazardous materials, a selection of Chemical Protective Clothing (CPC), chemical compatibility charts and/or CPC Selection Guides, hazardous materials reference texts, and a CPC worksheet. Using the materials provided, determine the CPC compatibility with the hazardous materials, and identify the breakthrough time (in minutes). You will begin on my instructions to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

1. A list of Hazardous Materials/WMD Agents
2. A list of CPC Material
3. CPC Chemical compatibility charts
4. CPC Selection Guide(s)
5. Hazardous Materials reference texts
6. CPC Worksheets

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

Planning the Response
 Selecting Chemical Protective Clothing
Skill #7

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	<u>TEST</u>		<u>RETEST</u>	
Planning the Response - Skill Number #7	S	U	S	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. <p style="text-align: right;">(7.3.3)</p> Given three examples of various hazardous materials, the hazardous materials technician shall determine the protective clothing construction materials for a given action option using chemical compatibility charts. <p style="text-align: right;">(7.3.3.4.6)</p>				
The candidate shall:	S	U	S	U
1. Chemical #1 Name _____ a. Identifies breakthrough time (in minutes) b. Determined best CPC compatibility				
2. Chemical #2 Name _____ a. Identifies breakthrough time (in minutes) b. Determined best CPC compatibility				
3. Chemical #3 Name _____ a. Identifies breakthrough time (in minutes) b. Determined best CPC compatibility				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

**Chemical Protective Clothing
 Selection Worksheet**

Name: _____
 Date: _____

Hazardous Material/WMD	CPC Materials/Garment	CPC Breakthrough Time in Min.	CPC Selected for Use (Yes or No)
#1: _____	1.	Min.	
	2.	Min.	
	3.	Min.	
#2: _____	1.	Min.	
	2.	Min.	
	3.	Min.	
#3: _____	1.	Min.	
	2.	Min.	
	3.	Min.	

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Planning the Response

Incident Action Plan

Skill #8

PERFORMANCE STANDARD

Section 604

**NFPA 472 7.3.5, 7.3.5.2, 7.3.5.2.1, 7.3.5.2.2, 7.6.3(1),
7.6.3(2), 7.6.3(8)**

TECHNICIAN

OBJECTIVE

Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall develop a plan of action, including site safety and a 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.

Given a scenario involving a hazardous materials/WMD incident, the hazardous materials technician shall develop the site safety and control plan that must be included as part of the incident action plan.

The hazardous materials technician shall list and describe the safety considerations to be included.

The hazardous materials technician shall identify the points that should be made in a safety briefing prior to working at the scene.

Given a scenario involving a hazardous materials/WMD incident, the hazardous materials technician shall complete the reporting and documentation requirements consistent with the emergency response plan and standard operating procedures and shall meet the following requirements:

- Identify the reports and supporting documentation required by the emergency response plan or standard operating procedures.
- Demonstrate completion of the reports required by the emergency response plan or standard operating procedures.
- Identify the requirements for compiling hot zone entry and exit logs.

INSTRUCTIONS - Procedures for achieving the objective

Given a simulated hazardous materials/WMD incident or scenario involving a facility or transportation setting, the technician shall develop a complete incident action plan (IAP) including a site safety plan. The plan shall be consistent with the local emergency response plan and the organization's standard operating procedures and thoroughly

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

document responder actions. You will begin on my instruction to start. Do you understand these instructions?

EXAMINER NOTE

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Simulated hazardous materials/WMD incident or scenario involving a facility or transportation setting
ICS forms or ICS worksheet

Note: Standard ICS forms would include:

- ICS 201 Incident Briefing Form
- ICS 202 Incident Objectives Worksheet
- ICS 203 Organization Assignment List
- ICS 204 Division Assignment List
- ICS 205 Communications Plan
- ICS 206 Medical Plan
- ICS 208HM Site Safety and Control Plan

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

Planning the Response
 Incident Action Plan
Skill #8

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Planning the Response -Skill Number #8	S	U	S	U
<p>Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall develop a plan of action, including site safety and a 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.</p> <p style="text-align: right;">(7.3.5)</p> <p>Given a scenario involving a hazardous materials/WMD incident, the hazardous materials technician shall develop the site safety and control plan that must be included as part of the incident action plan.</p> <p style="text-align: right;">(7.3.5.2)</p> <p>The hazardous materials technician shall list and describe the safety considerations to be included.</p> <p style="text-align: right;">(7.3.5.2.1)</p> <p>The hazardous materials technician shall identify the points that should be made in a safety briefing prior to working at the scene.</p> <p style="text-align: right;">(7.3.5.2.2)</p> <p>Given a scenario involving a hazardous materials/WMD incident, the hazardous materials technician shall complete the reporting and documentation requirements consistent with the emergency response plan and standard operating procedures and shall meet the following requirements: (7.6.3)</p> <ul style="list-style-type: none"> • Identify the reports and supporting documentation required by the emergency response plan or standard operating procedures. <p style="text-align: right;">(7.6.3(1))</p>				

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

<ul style="list-style-type: none"> Demonstrate completion of the reports required by the emergency response plan or standard operating procedures. (7.6.3(2)) Identify the requirements for compiling hot zone entry and exit logs. (7.6.3(8)) 				
The trainee shall:	S	U	S	U
a) Analyze the incident				
b) Develop a complete incident action plan				
c) Develop a site safety plan				
d) Conduct a pre-entry safety briefing				
e) Log all entries and exits to and from the hot zone				

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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Incident Command Worksheet

Date: _____
 Incident Name: _____
 Incident Address/Location: _____
 Incident Command Post Location: _____
 Staging Area Location: _____
 Dispatch Time: _____
 On-Scene Time: _____
 Controlled: _____
 Extinguishment: _____

Incident Commander(s)	
Name	Date/Time

Scene Sketch

1st Alarm	
Unit	
Engine	
Engine	
Ladder	
EMS	

2nd Alarm	

3rd Alarm	

Mutual Aid	
Dept	Resource

Side C

Side B Side D

Side A

Assignments					
Division/Group	Division/Group	Division/Group	Division/Group	Division/Group	Division/Group

Incident Command Worksheet

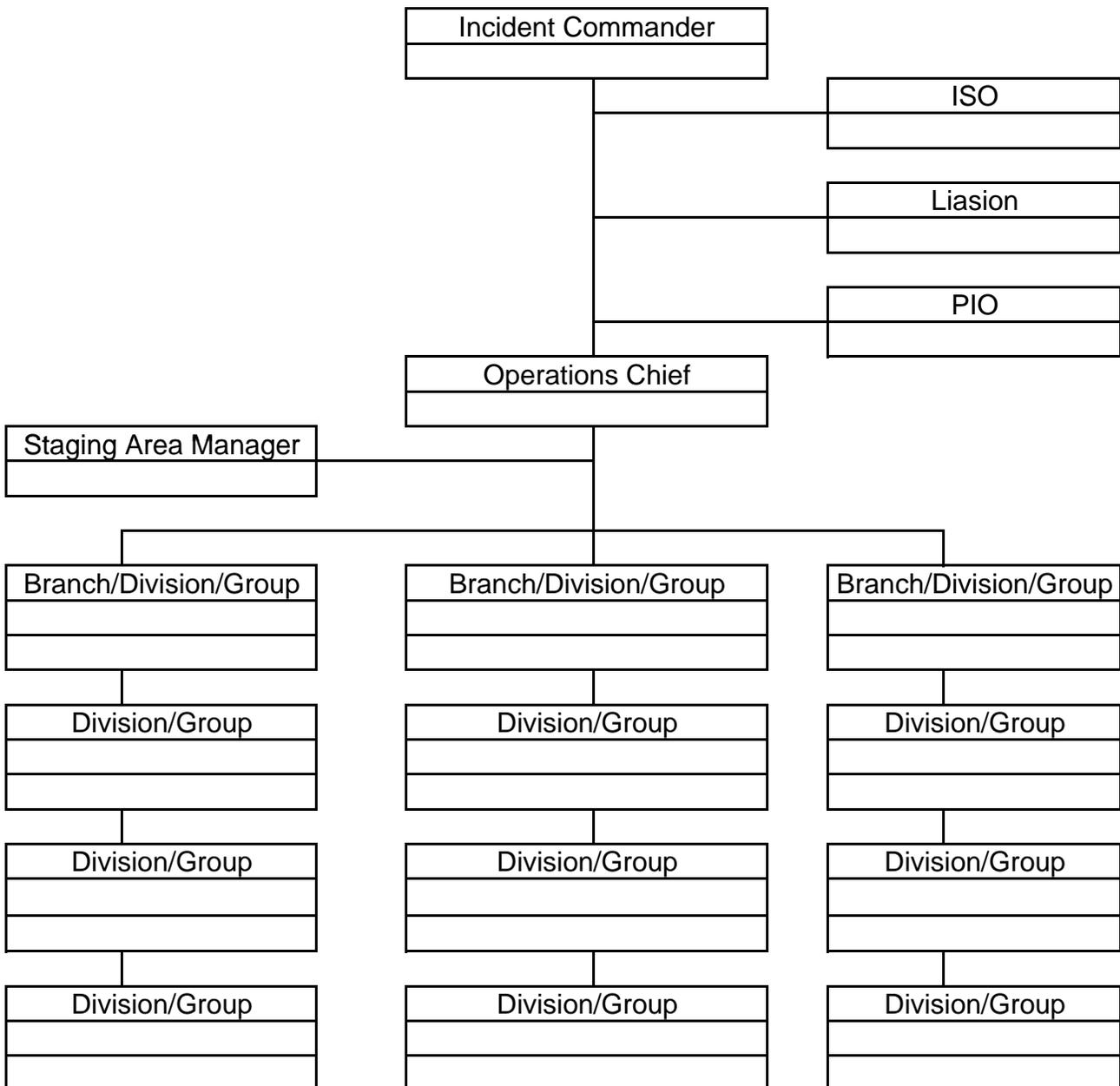
Summary of Resources							
	Resource Ordered	Resource ID	ETA	OS	# of Personnel	Location	Released
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
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Incident Command Worksheet

Response Objectives
Life Safety
Incident Stabilization
Environmental Protection
Property Preservation

Tactical Priorities
Rescue
Exposures
Confinement
Extinguishment
Overhaul
Ventilation
Salvage

8 Step Hazmat Mgmt Process
Site Management & Control
Identify the Material Involved
Identify the Hazards and Risks
Select Proper PPE/CPC
Coordinate Info & Resources
Develop & Implement Objs
Decontamination
Termination Activities

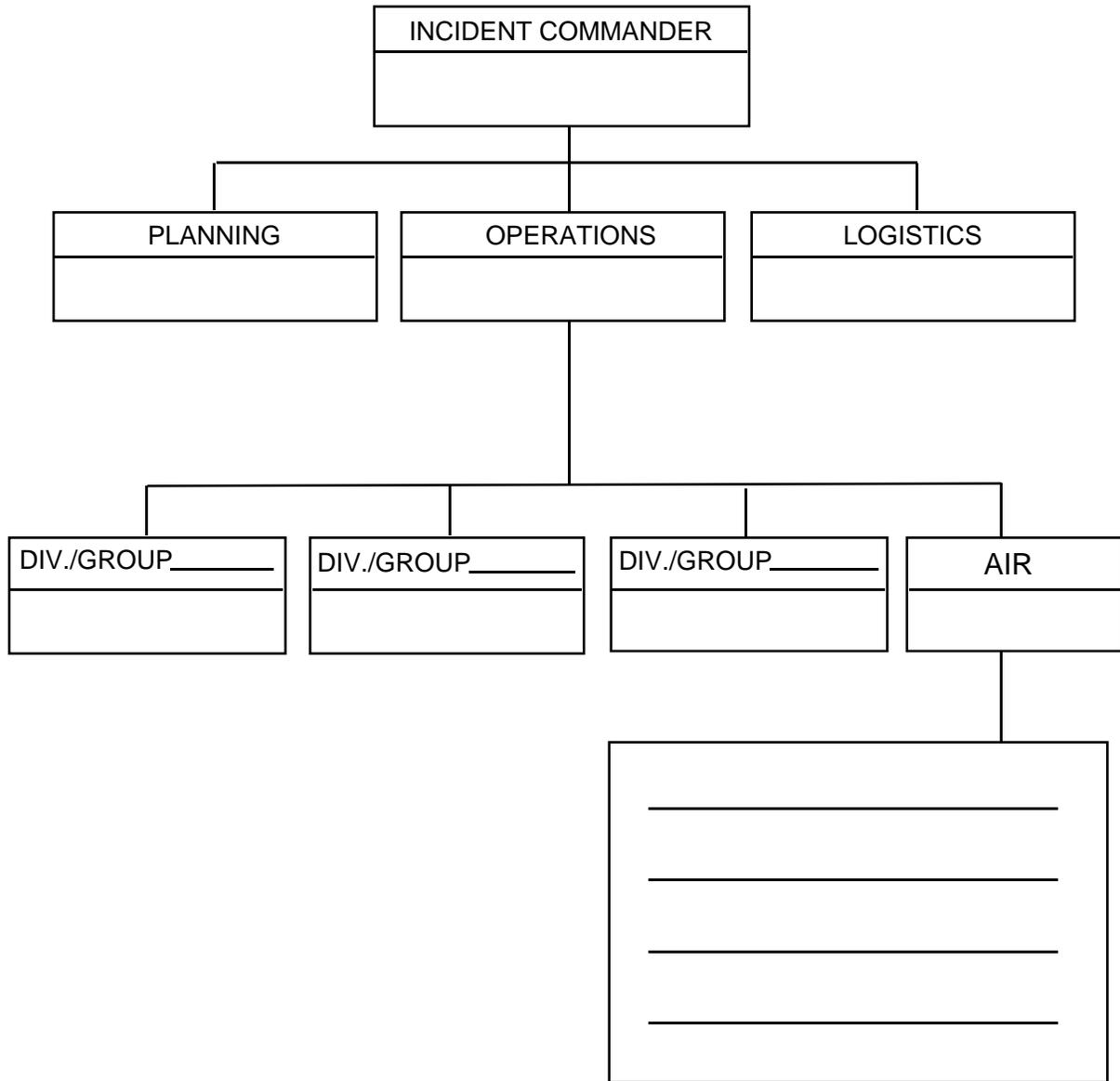


Incident Command Worksheet

Summary of Actions		
	Time/Date	Activity
1		
2		
3		
4		
5		
6		
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10		
11		
12		
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INCIDENT BRIEFING	1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED
4. MAP SKETCH			
ICS 201 (12/93) NFES 1325	PAGE 1	5. PREPARED BY (NAME AND POSITION)	

7. CURRENT ORGANIZATION



ORGANIZATION ASSIGNMENT LIST		1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED																																																																					
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">POSITION</td> <td style="padding: 5px;">NAME</td> </tr> </table>	POSITION	NAME	4. OPERATIONAL PERIOD (DATE/TIME)																																																																						
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5. INCIDENT COMMANDER AND STAFF		9. OPERATIONS SECTION																																																																							
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PREPARED BY (RESOURCES UNIT)		10. FINANCE/ADMINISTRATION SECTION																																																																							

1. BRANCH	2. DIVISION/GROUP	ASSIGNMENT LIST
-----------	-------------------	------------------------

3. INCIDENT NAME	4. OPERATIONAL PERIOD DATE _____ TIME _____
------------------	--

5. OPERATIONAL PERSONNEL

OPERATIONS CHIEF _____ DIVISION/GROUP SUPERVISOR _____

BRANCH DIRECTOR _____ AIR TACTICAL GROUP SUPERVISOR _____

6. RESOURCES ASSIGNED THIS PERIOD

STRIKE TEAM/TASK FORCE/ RESOURCE DESIGNATOR	EMT	LEADER	NUMBER PERSONS	TRANS. NEEDED	PICKUP PT./TIME	DROP OFF PT./TIME

7. CONTROL OPERATIONS

8. SPECIAL INSTRUCTIONS

9. DIVISION/GROUP COMMUNICATIONS SUMMARY

FUNCTION	FREQ.	SYSTEM	CHAN.	FUNCTION	FREQ.	SYSTEM	CHAN.
COMMAND	LOCAL			SUPPORT	LOCAL		
	REPEAT				REPEAT		
DIV./GROUP TACTICAL				GROUND TO AIR			

PREPARED BY (RESOURCE UNIT LEADER)	APPROVED BY (PLANNING SECT. CH.)	DATE	TIME
------------------------------------	----------------------------------	------	------

INCIDENT RADIO COMMUNICATIONS PLAN	1. INCIDENT NAME	2. DATE/TIME PREPARED	3. OPERATIONAL PERIOD DATE/TIME
	4. BASE RADIO CHANNEL UTILIZATION		

SYSTEM/CACHE	CHANNEL	FUNCTION	FREQUENCY/TONE	ASSIGNMENT	REMARKS

5. PREPARED BY (COMMUNICATIONS UNIT)

MEDICAL PLAN	1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED	4. OPERATIONAL PERIOD					
5. INCIDENT MEDICAL AID STATIONS									
MEDICAL AID STATIONS	LOCATION			PARAMEDICS					
				YES	NO				
6. TRANSPORTATION									
A. AMBULANCE SERVICES									
NAME	ADDRESS		PHONE	PARAMEDICS					
				YES	NO				
B. INCIDENT AMBULANCES									
NAME	LOCATION			PARAMEDICS					
				YES	NO				
7. HOSPITALS									
NAME	ADDRESS		TRAVEL TIME		PHONE	HELIPAD		BURN CENTER	
			AIR	GRND		YES	NO	YES	NO
8. MEDICAL EMERGENCY PROCEDURES									
206 ICS 8/78			9. PREPARED BY (MEDICAL UNIT LEADER)			10. REVIEWED BY (SAFETY OFFICER)			

SITE SAFETY AND CONTROL PLAN ICS 208 HM	1. Incident Name:	2. Date Prepared:	3. Operational Period: Time:									
Section I. Site Information												
4. Incident Location:												
Section II. Organization												
5. Incident Commander:	6. HM Group Supervisor:	7. Tech. Specialist - HM Reference:										
8. Safety Officer:	9. Entry Leader:	10. Site Access Control Leader:										
11. Asst. Safety Officer - HM:	12. Decontamination Leader:	13. Safe Refuge Area Mgr:										
14. Environmental Health:	15.	16.										
17. Entry Team: (Buddy System) Name: PPE Level		18. Decontamination Element: Name: PPE Level										
Entry 1		Decon 1										
Entry 2		Decon 2										
Entry 3		Decon 3										
Entry 4		Decon 4										
Section III. Hazard/Risk Analysis												
19. Material:	Container type	Qty.	Phys. State	pH	IDLH	F.P.	I.T.	V.P.	V.D.	S.G.	LEL	UEL
Comment:												
Section IV. Hazard Monitoring												
20. LEL Instrument(s):						21. O ₂ Instrument(s):						
22. Toxicity/PPM Instrument(s):						23. Radiological Instrument(s):						
Comment:												
Section V. Decontamination Procedures												
24. Standard Decontamination Procedures:									YES:	NO:		
Comment:												
Section VI. Site Communications												
25. Command Frequency:				26. Tactical Frequency:				27. Entry Frequency:				
Section VII. Medical Assistance												
28. Medical Monitoring:		YES:	NO:	29. Medical Treatment and Transport In-place:					YES:	NO:		
Comment:												

Section VIII. Site Map

30. Site Map:



Weather Command Post Zones Assembly Areas Escape Routes Other

Section IX. Entry Objectives

31. Entry Objectives:

Section X. SOP S and Safe Work Practices

32. Modifications to Documented SOP s or Work Practices: YES: NO:

Comment:

Section XI. Emergency Procedures

33. Emergency Procedures:

Section XII. Safety Briefing

34. Asst. Safety Officer - HM Signature: Safety Briefing Completed (Time):

35. HM Group Supervisor Signature: 36. Incident Commander Signature:

INSTRUCTIONS FOR COMPLETING THE SITE SAFETY AND CONTROL PLAN ICS 208 HM

A Site Safety and Control Plan must be completed by the Hazardous Materials Group Supervisor and reviewed by all within the Hazardous Materials Group prior to operations commencing within the Exclusion Zone.

Item Number	Item Title	Instructions
1.	Incident Name/Number	Print name and/or incident number.
2.	Date and Time	Enter date and time prepared.
3.	Operational Period	Enter the time interval for which the form applies.
4.	Incident Location	Enter the address and or map coordinates of the incident.
5 - 16.	Organization	Enter names of all individuals assigned to ICS positions. (Entries 5 & 8 mandatory). Use Boxes 15 and 16 for other functions: i.e. Medical Monitoring.
17 - 18.	Entry Team/Decon Element	Enter names and level of PPE of Entry & Decon personnel. (Entries 1 - 4 mandatory buddy system and back-up.)
19.	Material	Enter names and pertinent information of all known chemical products. Enter UNK if material is not known. Include any which apply to chemical properties. (Definitions: ph = Potential for Hydrogen (Corrosivity), IDLH = Immediately Dangerous to Life and Health, F.P. = Flash Point, I.T. = Ignition Temperature, V.P. = Vapor Pressure, V.D. = Vapor Density, S.G. = Specific Gravity, LEL = Lower Explosive Limit, UEL = Upper Explosive Limit)
20 - 23.	Hazard Monitoring	List the instruments which will be used to monitor for chemical.
24.	Decontamination Procedures	Check NO if modifications are made to standard decontamination procedures and make appropriate Comments including type of solutions.
25 - 27.	Site Communications	Enter the radio frequency(ies) which apply.
28 - 29.	Medical Assistance	Enter comments if NO is checked.
30.	Site Map	Sketch or attach a site map which defines all locations and layouts of operational zones. (Check boxes are mandatory to be identified.)
31.	Entry Objectives	List all objectives to be performed by the Entry Team in the Exclusion Zone and any parameters which will alter or stop entry operations.
32 - 33.	SOP s, Safe Work Practices, and Emergency Procedures	List in Comments if any modifications to SOP s and any emergency procedures which will be affected if an emergency occurs while personnel are within the Exclusion Zone.
34 - 36.	Safety Briefing	Have the appropriate individual place their signature in the box once the Site Safety and Control Plan is reviewed. Note the time in box 34 when the safety briefing has been completed.

**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Implementing the Planned Response

Performing Incident Command Duties

Skill #9

PERFORMANCE STANDARD

Section 604

NFPA 472 7.4.1

TECHNICIAN

OBJECTIVE

Given 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.

INSTRUCTIONS - Procedures for achieving the objective

Given a simulated hazardous materials/WMD incident scenario, you will be evaluated on your ability to perform the assigned duties of a hazardous materials branch/group functional assignment. Your assignment will be assigned to you by the examiner and may be one of the following positions:

- (1) Hazardous materials branch director/group supervisor
- (2) Assistant safety officer — Hazardous materials
- (3) Site access control leader
- (4) Decontamination leader
- (5) Technical specialist — Hazardous materials leader
- (6) Safe refuge area manager

You shall function as part of the incident command system and shall operate as a component of a written incident action plan. You will begin on my instruction to start. The skill will end when the hazardous materials/WMD incident scenario has terminated. Do you understand these instructions?

EXAMINER NOTE

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

A scenario involving a hazardous materials/WMD incident

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

Implementing the Planned Response
 Performing Incident Command Duties
Skill #9

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	<u>TEST</u>		<u>RETEST</u>	
Implementing the Planned Response - Skill Number #9	S	U	S	U
Given 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. <p style="text-align: right;">(7.4.1)</p>				
The trainee shall:	S	U	S	U
Hazardous Materials Branch/Group Assignment: _____				
a) Effectively perform the assigned duties				
b) Operated within the incident command system				
c) Operated within the constraints of the incident action plan and site safety plan				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Implementing the Planned Response

Using Chemical Protective Clothing and Respiratory Protection

Skill #10

PERFORMANCE STANDARD

Section 604

NFPA 472 7.4.2 (1), (2), (3), (4)

TECHNICIAN

OBJECTIVE

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:

- (1) Describe three safety procedures for personnel working in chemical-protective clothing.
- (2) Describe three emergency procedures for personnel working in chemical-protective clothing.

Emergency procedures for personnel working in vapor-protective clothing should include procedures for the following:

- (1) Loss of air supply
 - (2) Loss of suit integrity
 - (3) Loss of verbal communications
 - (4) Buddy down in hot zone
- (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.

INSTRUCTIONS - procedures for achieving the objective

Given various forms of chemical protective clothing and respiratory protection, you will don, perform manipulative tasks and doff each ensemble. You will be provided an assistant. Additionally, you will:

- 1) Describe three safety procedures for personnel working in chemical-protective clothing.
- (2) Describe three emergency procedures for personnel working in chemical-protective clothing.

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TEXAS COMMISSION ON FIRE PROTECTION HAZARDOUS MATERIALS TECHNICIAN

Performance Standards

You will begin on my instructions to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

1. Complete Level A Vapor Protective Ensemble
2. Complete Level B Encapsulated Splash Protective Ensemble
3. Complete Level B Non-Encapsulated Splash Protective Ensemble
4. Complete Level C Splash Protective Ensemble
5. Tools and props to perform manipulative task with
6. Suitable place for technician to sit (i.e. small stool, folding chair with no back, or stepladder 18"-24")

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

Implementing the Planned Response
 Using Chemical Protective Clothing and Respiratory Protection
Skill #10

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	<u>TEST</u>		<u>RETEST</u>	
Implementing the Planned Response - Skill Number #10	S	U	S	U
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: (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. (7.4.2)				
The candidate shall:	S	U	S	U
Level A Vapor Protective CPC Ensemble				
a) Properly Don a Level A Vapor Protective CPC Ensemble				
b) Perform a manipulative task while wearing a Level A Vapor Protective CPC Ensemble				
c) Properly Doff a Level A Vapor Protective CPC Ensemble				
Level B Encapsulated Splash Protective CPC Ensemble				
d) Properly Don a Level B Encapsulated Splash Protective CPC Ensemble				

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

e) Perform a manipulative task while wearing a Level B Encapsulated Splash Protective CPC Ensemble				
f) Properly Doff a Level B Encapsulated Splash Protective CPC Ensemble				
Level B Non-Encapsulated Splash Protective CPC Ensemble				
g) Properly Don a Level B Non-Encapsulated Splash Protective CPC Ensemble				
h) Perform a manipulative task while wearing Level B Non-Encapsulated Splash Protective CPC Ensemble				
i) Properly Doff a Level B Non-Encapsulated Splash Protective CPC Ensemble				
Level C Splash Protective CPC Ensemble				
j) Properly Don a Level C Splash Protective CPC Ensemble				
k) Perform a manipulative task while wearing a Level C Splash Protective CPC Ensemble				
l) Properly Doff a Level C Splash Protective CPC Ensemble				
m) Describe three safety procedures for personnel working in chemical-protective clothing.				
n) Describe three emergency procedures for personnel working in chemical-protective clothing.				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

Certifying Examiner

Date

Re-Test Certifying Examiner

Date

Overall Skill Sheet Score
Pass <input type="checkbox"/> Fail <input type="checkbox"/>
Overall Skill Sheet Re-Test Score
Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Implementing the Planned Response

Using Chlorine Kits

Skill #11

PERFORMANCE STANDARD

Section 604

NFPA 472 7.4.3 (1), (2), (5); 7.5.1

TECHNICIAN

OBJECTIVE

Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall select the 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:

Given a pressure vessel, select the material or equipment and demonstrate a method(s) to contain leaks from the following locations:

- (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

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

Identify the maintenance and inspection procedures for the tools and equipment provided for the control of hazardous materials releases according to the manufacturer's specifications and recommendations.

Given scenarios involving hazardous materials/WMD incidents and the incident action plan, the hazardous materials technician shall evaluate the effectiveness of any control functions identified in the plan of action.

INSTRUCTIONS - procedures for achieving the objective

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TEXAS COMMISSION ON FIRE PROTECTION HAZARDOUS MATERIALS TECHNICIAN

Performance Standards

You will be provided with a Chlorine Cylinder/Container/Tank Simulator and three chlorine emergency response kits that contain the necessary tools and equipment to contain a leak. The examiner will select a type of leak and or location of the leak. Working as a team, you must choose the proper chlorine kit for the evaluation, inspect its contents, and effectively stop the leak. Your team must indicate to me when the leak has been controlled. You will be graded as a team. You will begin on my instruction to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

EXAMINERS NOTE:

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

1. 1 - Chlorine 100 or 150 lbs. pressure vessel simulator
2. 1 - Chlorine One Ton Intermediate Bulk container pressure vessel simulator
3. 1 - Chlorine Pressure Railcar dome assembly simulator
4. 1 - Chlorine A Kit
5. 1 - Chlorine B Kit
6. 1 - Chlorine C Kit or Midland Emergency Kit
7. Level A CPC

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

**Implementing the Planned Response
Using Chlorine Kits
Skill #11**

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN		<u>TEST</u>		<u>RETEST</u>	
Implementing the Planned Response - Skill Number #11		S	U	S	U
<p>Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall select the 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:</p> <p>(1) Given a pressure vessel, select the material or equipment and demonstrate a method(s) to contain leaks from the following locations:</p> <ul style="list-style-type: none"> (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 <p>(2) Given the fittings on a pressure container, demonstrate the ability to perform the following:</p> <ul style="list-style-type: none"> (a) Close valves that are open (b) Replace missing plugs (c) Tighten loose plugs <p>(5) Identify the maintenance and inspection procedures for the tools and equipment provided for the control of hazardous materials releases according to the manufacturer's specifications and recommendations.</p> <p align="right">(7.4.3)</p>					

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Given scenarios involving hazardous materials/WMD incidents and the incident action plan, the hazardous materials technician shall evaluate the effectiveness of any control functions identified in the plan of action. (7.5.1)				
The candidate shall:	S	U	S	U
a) Given a Chlorine 100 or 150 lbs. pressure vessel select a Chlorine Emergency Kit Type A and contain a leak. Leak Location/Type: _____				
b) Given a Chlorine One Ton Intermediate Bulk container pressure vessel select a Chlorine Emergency Kit Type B and contain a leak. Leak Location/Type: _____				
c) Given a Chlorine Pressure Railcar Dome assembly select a Chlorine Emergency Kit Type B and contain a leak. Leak Location/Type: _____				
d) All steps must be performed while wearing Level A Vapor Protective Chemical Protective Clothing				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Implementing the Planned Response

Contain a Leak in a 55 Gallon Drum

Skill #12

PERFORMANCE STANDARD

Section 604

NFPA 472 7.4.3 (3), (4), (5); 7.5.1

TECHNICIAN

OBJECTIVE

Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall select the 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:

Given a 55 gal (208 L) drum and applicable tools and materials, demonstrate the ability to contain the following types of leaks:

- (a) Bung leak
- (b) Chime leak
- (c) Forklift puncture
- (d) Nail puncture

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:

- (a) Rolling slide-in
- (b) Slide-in
- (c) Slip-over

Identify the maintenance and inspection procedures for the tools and equipment provided for the control of hazardous materials releases according to the manufacturer's specifications and recommendations.

Given scenarios involving hazardous materials/WMD incidents and the incident action plan, the hazardous materials technician shall evaluate the effectiveness of any control functions identified in the plan of action.

INSTRUCTIONS - procedures for achieving the objective

Presented with a 55-gallon leaking drum containing a randomly selected leak involving either a nail puncture, a forklift puncture, a chime leak, or a leaking closure (bung or top) you will choose the appropriate tools and equipment from the equipment available, inspect its serviceability, and contain the leak. Additionally you will over pack the drum utilizing a randomly selected method (selected by the examiner). After donning CPC, you will begin on my instruction to start. The skill will end when you state or indicate to

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

me that you have completed all the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

- 1.) A 55-gallon drum with either a nail puncture, a forklift puncture, a chime leak, or a leaking closure (bung).
- 2.) Bung wrench
- 3.) Drum plugging and patching kit
- 4.) Over pack drum
- 5.) CPC with respiratory protection

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

Implementing the Planned Response
 Contain a Leak in a 55 Gallon Drum
Skill #12

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	<u>TEST</u>		<u>RETEST</u>	
Implementing the Planned Response - Skill Number #12	S	U	S	U
<p>Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall select the 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:</p> <p>(3) Given a 55 gal (208 L) drum and applicable tools and materials, demonstrate the ability to contain the following types of leaks:</p> <ul style="list-style-type: none"> (a) Bung leak (b) Chime leak (c) Forklift puncture (d) Nail puncture <p>(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:</p> <ul style="list-style-type: none"> (a) Rolling slide-in (b) Slide-in (c) Slip-over <p>(5) Identify the maintenance and inspection procedures for the tools and equipment provided for the control of hazardous materials releases according to the manufacturer's specifications and recommendations.</p> <p style="text-align: right;">(7.4.3)</p> <p>Given scenarios involving hazardous materials/WMD incidents and the incident action plan, the hazardous</p>				

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

materials technician shall evaluate the effectiveness of any control functions identified in the plan of action. (7.5.1)				
The candidate shall:	S	U	S	U
a) Given a 55 gal (208 L) drum and applicable tools and materials, demonstrate the ability to contain one of the following types of leaks: <ul style="list-style-type: none"> • Bung leak • Chime leak • Forklift puncture • Nail puncture 				
b) 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 one of the following methods: <ul style="list-style-type: none"> • Rolling slide-in • Slide-in • Slip-over 				
c) All tasks must be performed in Chemical Protective Clothing				

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Implementing the Planned Response

Highway Cargo Tank Emergency Response

Skill #13

PERFORMANCE STANDARD

Section 604

NFPA 472 7.4.3 (5), (8), (9), (10), (11); 7.5.1

TECHNICIAN

OBJECTIVE

Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall select the 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:

Identify the maintenance and inspection procedures for the tools and equipment provided for the control of hazardous materials releases according to the manufacturer's specifications and recommendations.

Given an MC-306/DOT-406 cargo tank and a dome cover clamp, demonstrate the ability to install the clamp on the dome.

Identify the methods and precautions used to control a fire involving an MC-306/DOT-406 aluminum shell cargo tank.

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:

- (a) Dome cover leak
- (b) Irregular-shaped hole
- (c) Puncture
- (d) Split or tear

Describe three product removal and transfer considerations for overturned MC-306/DOT-406, MC-307/DOT-407, MC-312/DOT-412, MC-331, and MC-338 cargo tanks.

Given scenarios involving hazardous materials/WMD incidents and the incident action plan, the hazardous materials technician shall evaluate the effectiveness of any control functions identified in the plan of action.

INSTRUCTIONS - procedures for achieving the objective

You will be presented with a MC 306/DOT 406 cargo tank, which is leaking a product from one of the dome covers. You will gather the necessary equipment for grounding the cargo tank and controlling the leak coming from the dome cover and inspect them

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TEXAS COMMISSION ON FIRE PROTECTION HAZARDOUS MATERIALS TECHNICIAN

Performance Standards

for serviceability. You will properly install the dome clamp and ground and bond the cargo tank in anticipation of product transfer operations. You will be graded as a team. You will begin on my instruction to start. The skill will end when you state or indicate to me that you have completed the above identified steps. Do you understand these instructions?

EXAMINERS NOTE

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

1. 1 - MC 306/DOT 406 Cargo tank laying on its side and water spilling out of a dome cover; or a Cargo tank dome cover training simulator and water spilling out of the dome cover
2. 1 - Dome cover clamp
3. 1 - LEL monitor
4. 1 - Complete set of grounding equipment
 - a. Ground rod
 - b. Ground clamps
 - c. Grounding cables
 - d. Non-sparking hammer

The hazardous materials technician trainee shall accomplish the skill wearing "**FULL PROTECTIVE CLOTHING FOR STRUCTURAL FIREFIGHTERS**" as required by the Texas Commission on Fire Protection to include helmet, coat, trousers, boots, and SCBA.

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

Implementing the Planned Response
 Highway Cargo Tank Emergency Response
Skill #13

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	<u>TEST</u>		<u>RETEST</u>	
Implementing the Planned Response - Skill Number #13	S	U	S	U
<p>Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall select the 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:</p> <ul style="list-style-type: none"> (5) Identify the maintenance and inspection procedures for the tools and equipment provided for the control of hazardous materials releases according to the manufacturer's specifications and recommendations. (8) Given an MC-306/DOT-406 cargo tank and a dome cover clamp, demonstrate the ability to install the clamp on the dome. (9) Identify the methods and precautions used to control a fire involving an MC-306/DOT-406 aluminum shell cargo tank. (10) 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: <ul style="list-style-type: none"> (a) Dome cover leak (b) Irregular-shaped hole (c) Puncture (d) Split or tear (11) Describe three product removal and transfer considerations for overturned MC-306/DOT-406, MC-307/DOT-407, MC-312/DOT-412, MC-331, and MC-338 cargo tanks. 				

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HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

(7.4.3)				
Given scenarios involving hazardous materials/WMD incidents and the incident action plan, the hazardous materials technician shall evaluate the effectiveness of any control functions identified in the plan of action.				
(7.5.1)				
The candidate shall:	S	U	S	U
a) Identify the maintenance and inspection procedures for the tools and equipment provided for the control of hazardous materials releases according to the manufacturer's specifications and recommendations.				
b) Identify three considerations for assessing a leak or spill inside a confined space without entering the area.				
c) Identify three safety considerations for product transfer operations.				
d) Given an MC-306/DOT-406 cargo tank and a dome cover clamp, demonstrate the ability to install the clamp on the dome.				
e) Identify the methods and precautions used to control a fire involving an MC-306/DOT-406 aluminum shell cargo tank.				
f) 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: (a) Dome cover leak (b) Irregular-shaped hole (c) Puncture (d) Split or tear				
g) Describe three product removal and transfer considerations for overturned MC-306/DOT-406, MC-307/DOT-407, MC-312/DOT-412, MC-331, and MC-338 cargo tanks.				
h) Properly bond and ground the cargo tank in preparation of conducting transfer operations				
i) All tasks performed while wearing a full structural firefighting protective ensemble including SCBA.				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

Implementing the Planned Response

Decontamination Operations

Skill #14

PERFORMANCE STANDARD

Section 604

NFPA 472 7.4.5 (1), (2), (3)

TECHNICIAN

OBJECTIVE

The hazardous materials technician shall demonstrate the ability to set up and implement the following types of decontamination operations:

- (1) Technical decontamination operations in support of entry operations
- (2) Technical decontamination operations involving ambulatory and non-ambulatory victims
- (3) Mass decontamination operations involving ambulatory and non-ambulatory victims

INSTRUCTIONS - procedures for achieving the objective

The technician, operating as a member of a team at a simulated hazardous materials incident, shall demonstrate how to perform technical and mass decontamination operations. You will be provided with the necessary equipment and water supply to set up and establish a technical contamination reduction corridor. After establishing a technical contamination reduction corridor, while wearing Level B chemical protective clothing (CPC) and a self-contained breathing apparatus (SCBA); you shall demonstrate the procedures to decontaminate responders and both ambulatory and non-ambulatory victims during a simulated hazardous materials incident. Working as part of a team you will establish a mass decontamination corridor and explain how the decontamination of both ambulatory and non-ambulatory victims will be conducted during a simulated mass casualty hazardous materials incident.

You will be graded as a team. You will begin on my instruction to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

EXAMINERS NOTE:

The hazardous materials technician trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

1. Emergency Response and Hazardous Materials Response Equipment
2. Technical Decontamination Equipment
3. Mass Decontamination Equipment

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

4. Complete Level B CPC ensembles w/SCBAs
5. One technician in Level A CPC that has been “contaminated”
 A dummy/manikin or a non responder victim to be decontaminated

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
 Performance Standards

Implementing the Planned Response
 Decontamination Operations
Skill #14

Candidate: _____ Date: _____

Academy: _____ Test Site: _____

HAZARDOUS MATERIALS TECHNICIAN	<u>TEST</u>		<u>RETEST</u>	
Implementing the Planned Response - Skill Number 14	S	U	S	U
The hazardous materials technician shall demonstrate the ability to set up and implement the following types of decontamination operations: (1) Technical decontamination operations in support of entry operations (2) Technical decontamination operations involving ambulatory and non-ambulatory victims (3) Mass decontamination operations involving ambulatory and non-ambulatory victims (7.4.5)				
The candidate shall perform:	S	U	S	U
a) Technical decontamination operations in support of entry operations				
1. Properly locates Contamination Reduction Corridor upwind, uphill, and in warm zone				
2. Provides protective measure to protect the environment from contamination by constructing a large catch basin with plastic				
3. Sets up decon pools to contain decontamination solution run off				
4. Clearly marks entrance and exit access points				
5. Container available at entrance access point, in hot zone, for contaminated tools				
6. Container available in CRC for contaminated CPC				
7. Establishes suit removal area with suitable seating next to cold zone and takes precautions to eliminate contamination				
8. Establishes water supply				
9. Provides water to each decon pool area (i.e. garden hose)				

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN**

Performance Standards

10. Provides brushes for decon pool(s)				
11. Mixes proper decon solution for use				
b) Decontaminates a Technician				
1. Instructs technician to put tools in tool drop container				
2. Performs gross decontamination and wash at first decon pool to remove as much contamination as possible				
3. Performs wash/rinse at subsequent decon pool(s)				
4. Assist technician with CPC removal in doffing area				
5. Places contaminated CPC in proper drum				
6. Removes SCBA				
7. Instructs technician to move to medical evaluation area				
c) Technical decontamination operations involving ambulatory and non-ambulatory victims				
1. Transfer victim to emergency decontamination area				
2. Flush victim with copious amounts of water				
3. Remove outer layers of clothing				
4. Flush victim with copious amounts of water				
5. Remove victims respiratory protection if worn				
6. Cover with clean sheet				
7. Transfer care to EMS				
8. Transfer information regarding the name of the known or possible chemical hazard exposure				
d) Mass decontamination operations involving ambulatory and non-ambulatory victims				
1. Establishes a mass decontamination corridor in accordance with local protocols				
2. Establishes patient triage and treatment areas for both ambulatory and non-ambulatory victims				
3. Explains the mass decontamination process				
e) Conducts all decontamination operations while wearing full Level B liquid splash protective CPC				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
Performance Standards

HAZARDOUS MATERIALS INCIDENT COMMANDER
Collecting and Interpreting Hazard and Response Information
Skill #1

PERFORMANCE STANDARD

Section 605

NFPA 472 8.2.1.1

INCIDENT COMMANDER

OBJECTIVE

Given access to printed and technical resources, computer databases, and monitoring equipment, the incident commander shall collect and interpret hazard and response information not available from the current edition of the DOT *Emergency Response Guidebook* or an MSDS.

INSTRUCTIONS - procedures for achieving the objective

Given a hazardous materials incident/WMD scenario, you will collect and interpret hazard and response information utilizing provided printed and technical reference resources, computer databases and monitoring results. Given the data provided and using the information you have interpreted, you will develop an incident site safety plan and complete a product data sheet(s). You will begin on my instructions to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

EXAMINERS NOTE

The hazardous materials incident commander trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

1. Various hazardous materials/WMD incident scenarios
2. Various hazardous materials printed reference text (see reference list and equipment list).
3. Various hazardous materials electronic databases as provided by AHJ (i.e. WISER and/or CAMEO)
4. Chemical data worksheet
5. Site safety plan worksheet (i.e. ICS form 208HM)

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
 Performance Standards

HAZARDOUS MATERIALS INCIDENT COMMANDER
 Collecting and Interpreting Hazard and Response Information
Skill #1

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

Examiner: _____

HAZARDOUS MATERIALS INCIDENT COMMANDER	<u>TEST</u>		<u>RETEST</u>	
Collecting and Interpreting Hazard and Response Information - Skill Number #1	S	U	S	U
Given access to printed and technical resources, computer databases, and monitoring equipment, the incident commander shall collect and interpret hazard and response information not available from the current edition of the DOT <i>Emergency Response Guidebook</i> or an MSDS. (8.2.1.1)				
The candidate shall:	S	U	S	U
a) Uses a minimum of three reference sources				
b) Complete a chemical data worksheet for each chemical identified				
c) Using all data collected, complete a site safety plan*				

***At a minimum, the site safety plan should include the following information:**

1. Maximum exposure limits
2. Identifies hazards or conditions present
3. Level of PPE needed
4. Hazardous substance safe handling procedures
5. Identifies the need for a site map
6. Use of the "buddy system"
7. Backup personnel
8. Medical support
9. Safety officer
10. Decontamination procedures
11. Hazard monitoring
12. Control zones

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
Performance Standards

Evaluator/Candidate Comments:

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
Performance Standards

HAZARDOUS MATERIALS INCIDENT COMMANDER
Incident Action Plan
Skill #2

PERFORMANCE STANDARD

Section 605

NFPA 472 8.3.4

INCIDENT COMMANDER

OBJECTIVE

Given scenarios involving hazardous materials/WMD incidents, the incident commander shall develop an incident action plan, including site safety and control plan, consistent with the emergency response plan or standard operating procedures and within the capability of the available personnel, personal protective equipment, and control equipment.

INSTRUCTIONS - Procedures for achieving the objective

Given a simulated hazardous materials/WMD incident or scenario involving a facility or transportation setting, the incident commander shall develop a complete incident action plan (IAP) including a site safety plan. The plan shall be consistent with the local emergency response plan and the organization's standard operating procedures. Do you understand these instructions?

EXAMINER NOTE

The hazardous materials incident commander trainee will not be allowed to review the performance steps at the time of testing.

If the incident commander trainee has already completed a site safety plan for the provided scenario to meet the requirements of skill #1, that site safety plan may be submitted as a component of this incident action plan assignment. If a site safety plan has not been completed a new one must be developed to meet the requirements of this skill.

PREPARATION & EQUIPMENT

Simulated hazardous materials/WMD incident or scenario involving a facility or transportation setting
ICS forms or ICS worksheet

Note: Standard ICS forms would include:

- ICS 201 Incident Briefing Form
- ICS 202 Incident Objectives Worksheet
- ICS 203 Organization Assignment List
- ICS 204 Division Assignment List

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HAZARDOUS MATERIALS INCIDENT COMMANDER
Performance Standards

- ICS 205 Communications Plan
- ICS 206 Medical Plan
- ICS 208HM Site Safety and Control Plan

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
 Performance Standards

HAZARDOUS MATERIALS INCIDENT COMMANDER
 Incident Action Plan
Skill #2

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

Examiner: _____

HAZARDOUS MATERIALS INCIDENT COMMANDER	<u>TEST</u>		<u>RETEST</u>	
Planning the Response - Skill Number #2	S	U	S	U
Given scenarios involving hazardous materials/WMD incidents, the incident commander shall develop an incident action plan, including site safety and control plan, consistent with the emergency response plan or standard operating procedures and within the capability of the available personnel, personal protective equipment, and control equipment. (8.3.4)				
The candidate shall:	S	U	S	U
a) Analyze the incident				
b) Collect and interpret hazard and response information				
c) Estimate the potential outcomes				
d) Identify the response objectives				
e) Identify the potential response options				
f) Approve the level of personal protective equipment				
g) Develop a complete incident action plan				
h) Develop a site safety plan (see examiner's note above)				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
 Performance Standards

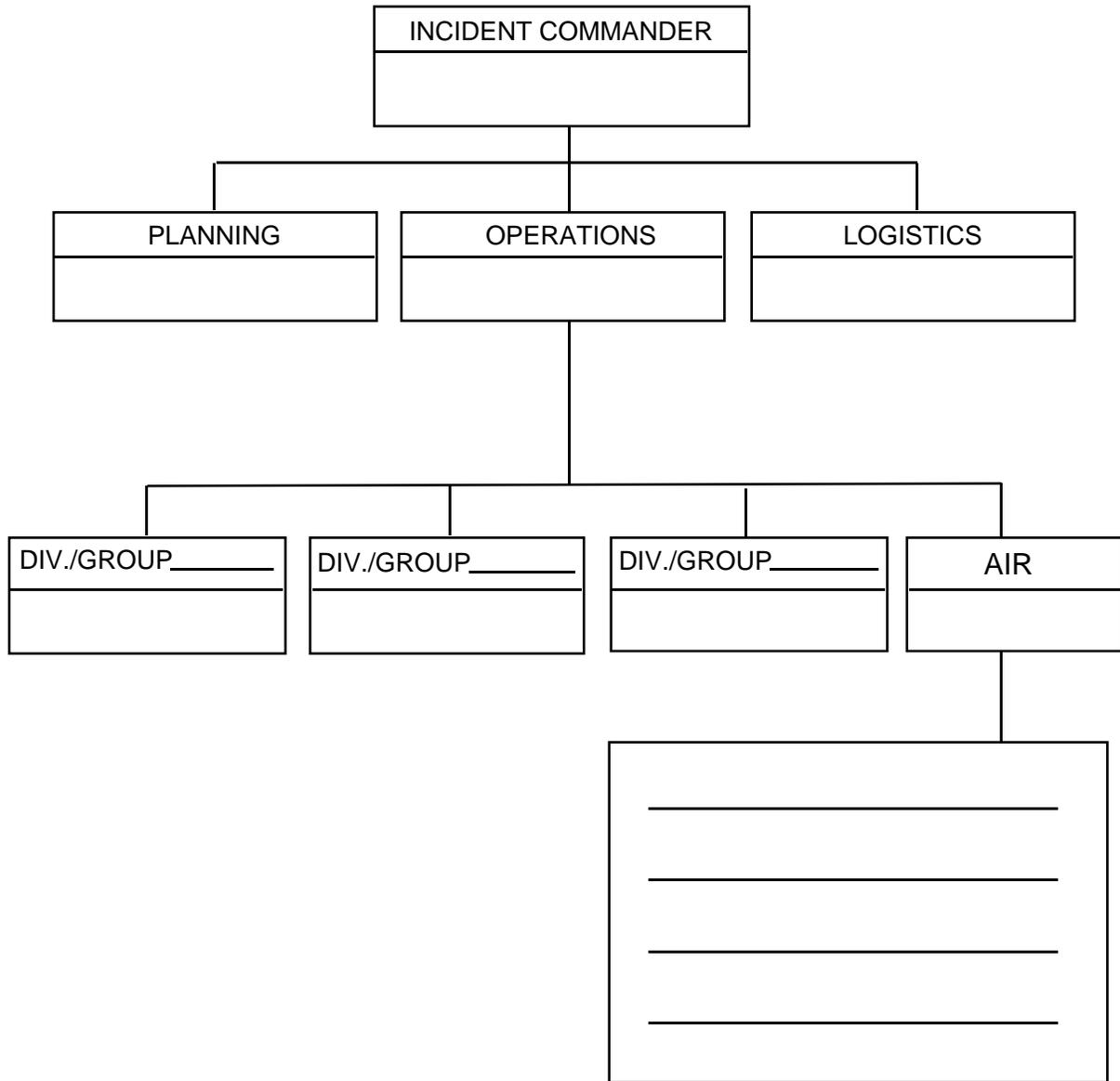
All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____ Certifying Examiner	_____ Date	Overall Skill Sheet Score Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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INCIDENT BRIEFING	1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED
4. MAP SKETCH			
ICS 201 (12/93) NFES 1325	PAGE 1	5. PREPARED BY (NAME AND POSITION)	

7. CURRENT ORGANIZATION



ORGANIZATION ASSIGNMENT LIST		1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED																																																																					
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 2px;">POSITION</td> <td style="padding: 2px;">NAME</td> </tr> </table>	POSITION	NAME	4. OPERATIONAL PERIOD (DATE/TIME)																																																																						
POSITION	NAME																																																																								
5. INCIDENT COMMANDER AND STAFF		9. OPERATIONS SECTION																																																																							
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1. BRANCH	2. DIVISION/GROUP	<h1 style="margin: 0;">ASSIGNMENT LIST</h1>
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3. INCIDENT NAME	4. OPERATIONAL PERIOD DATE _____ TIME _____
------------------	--

5. OPERATIONAL PERSONNEL

OPERATIONS CHIEF _____ DIVISION/GROUP SUPERVISOR _____

BRANCH DIRECTOR _____ AIR TACTICAL GROUP SUPERVISOR _____

6. RESOURCES ASSIGNED THIS PERIOD

STRIKE TEAM/TASK FORCE/ RESOURCE DESIGNATOR	EMT	LEADER	NUMBER PERSONS	TRANS. NEEDED	PICKUP PT./TIME	DROP OFF PT./TIME

7. CONTROL OPERATIONS

8. SPECIAL INSTRUCTIONS

9. DIVISION/GROUP COMMUNICATIONS SUMMARY

FUNCTION	FREQ.	SYSTEM	CHAN.	FUNCTION	FREQ.	SYSTEM	CHAN.
COMMAND	LOCAL			SUPPORT	LOCAL		
	REPEAT				REPEAT		
DIV./GROUP TACTICAL				GROUND TO AIR			

PREPARED BY (RESOURCE UNIT LEADER)	APPROVED BY (PLANNING SECT. CH.)	DATE	TIME
------------------------------------	----------------------------------	------	------

INCIDENT RADIO COMMUNICATIONS PLAN	1. INCIDENT NAME	2. DATE/TIME PREPARED	3. OPERATIONAL PERIOD DATE/TIME
	4. BASE RADIO CHANNEL UTILIZATION		

SYSTEM/CACHE	CHANNEL	FUNCTION	FREQUENCY/TONE	ASSIGNMENT	REMARKS

5. PREPARED BY (COMMUNICATIONS UNIT)

MEDICAL PLAN	1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED	4. OPERATIONAL PERIOD					
5. INCIDENT MEDICAL AID STATIONS									
MEDICAL AID STATIONS	LOCATION			PARAMEDICS					
				YES	NO				
6. TRANSPORTATION									
A. AMBULANCE SERVICES									
NAME	ADDRESS		PHONE	PARAMEDICS					
				YES	NO				
B. INCIDENT AMBULANCES									
NAME	LOCATION			PARAMEDICS					
				YES	NO				
7. HOSPITALS									
NAME	ADDRESS		TRAVEL TIME		PHONE	HELIPAD		BURN CENTER	
			AIR	GRND		YES	NO	YES	NO
8. MEDICAL EMERGENCY PROCEDURES									
206 ICS 8/78			9. PREPARED BY (MEDICAL UNIT LEADER)			10. REVIEWED BY (SAFETY OFFICER)			

SITE SAFETY AND CONTROL PLAN ICS 208 HM	1. Incident Name:	2. Date Prepared:	3. Operational Period: Time:									
Section I. Site Information												
4. Incident Location:												
Section II. Organization												
5. Incident Commander:	6. HM Group Supervisor:	7. Tech. Specialist - HM Reference:										
8. Safety Officer:	9. Entry Leader:	10. Site Access Control Leader:										
11. Asst. Safety Officer - HM:	12. Decontamination Leader:	13. Safe Refuge Area Mgr:										
14. Environmental Health:	15.	16.										
17. Entry Team: (Buddy System) Name: PPE Level		18. Decontamination Element: Name: PPE Level										
Entry 1		Decon 1										
Entry 2		Decon 2										
Entry 3		Decon 3										
Entry 4		Decon 4										
Section III. Hazard/Risk Analysis												
19. Material:	Container type	Qty.	Phys. State	pH	IDLH	F.P.	I.T.	V.P.	V.D.	S.G.	LEL	UEL
Comment:												
Section IV. Hazard Monitoring												
20. LEL Instrument(s):						21. O ₂ Instrument(s):						
22. Toxicity/PPM Instrument(s):						23. Radiological Instrument(s):						
Comment:												
Section V. Decontamination Procedures												
24. Standard Decontamination Procedures:									YES:	NO:		
Comment:												
Section VI. Site Communications												
25. Command Frequency:				26. Tactical Frequency:				27. Entry Frequency:				
Section VII. Medical Assistance												
28. Medical Monitoring:		YES:	NO:	29. Medical Treatment and Transport In-place:					YES:	NO:		
Comment:												

Section VIII. Site Map

30. Site Map:



Weather Command Post Zones Assembly Areas Escape Routes Other

Section IX. Entry Objectives

31. Entry Objectives:

Section X. SOP S and Safe Work Practices

32. Modifications to Documented SOP s or Work Practices: YES: NO:

Comment:

Section XI. Emergency Procedures

33. Emergency Procedures:

Section XII. Safety Briefing

34. Asst. Safety Officer - HM Signature: Safety Briefing Completed (Time):

35. HM Group Supervisor Signature: 36. Incident Commander Signature:

INSTRUCTIONS FOR COMPLETING THE SITE SAFETY AND CONTROL PLAN ICS 208 HM

A Site Safety and Control Plan must be completed by the Hazardous Materials Group Supervisor and reviewed by all within the Hazardous Materials Group prior to operations commencing within the Exclusion Zone.

Item Number	Item Title	Instructions
1.	Incident Name/Number	Print name and/or incident number.
2.	Date and Time	Enter date and time prepared.
3.	Operational Period	Enter the time interval for which the form applies.
4.	Incident Location	Enter the address and or map coordinates of the incident.
5 - 16.	Organization	Enter names of all individuals assigned to ICS positions. (Entries 5 & 8 mandatory). Use Boxes 15 and 16 for other functions: i.e. Medical Monitoring.
17 - 18.	Entry Team/Decon Element	Enter names and level of PPE of Entry & Decon personnel. (Entries 1 - 4 mandatory buddy system and back-up.)
19.	Material	Enter names and pertinent information of all known chemical products. Enter UNK if material is not known. Include any which apply to chemical properties. (Definitions: ph = Potential for Hydrogen (Corrosivity), IDLH = Immediately Dangerous to Life and Health, F.P. = Flash Point, I.T. = Ignition Temperature, V.P. = Vapor Pressure, V.D. = Vapor Density, S.G. = Specific Gravity, LEL = Lower Explosive Limit, UEL = Upper Explosive Limit)
20 - 23.	Hazard Monitoring	List the instruments which will be used to monitor for chemical.
24.	Decontamination Procedures	Check NO if modifications are made to standard decontamination procedures and make appropriate Comments including type of solutions.
25 - 27.	Site Communications	Enter the radio frequency(ies) which apply.
28 - 29.	Medical Assistance	Enter comments if NO is checked.
30.	Site Map	Sketch or attach a site map which defines all locations and layouts of operational zones. (Check boxes are mandatory to be identified.)
31.	Entry Objectives	List all objectives to be performed by the Entry Team in the Exclusion Zone and any parameters which will alter or stop entry operations.
32 - 33.	SOP s, Safe Work Practices, and Emergency Procedures	List in Comments if any modifications to SOP s and any emergency procedures which will be affected if an emergency occurs while personnel are within the Exclusion Zone.
34 - 36.	Safety Briefing	Have the appropriate individual place their signature in the box once the Site Safety and Control Plan is reviewed. Note the time in box 34 when the safety briefing has been completed.

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
Performance Standards

HAZARDOUS MATERIALS INCIDENT COMMANDER
Directing Resources (Private and Governmental)
Skill #3

PERFORMANCE STANDARD

Section 605

NFPA 472 8.4.2

INCIDENT COMMANDER

OBJECTIVE

Given a scenario involving a hazardous materials/WMD incident and the necessary resources to implement the planned response, the incident commander shall demonstrate the ability to direct the resources in a safe and efficient manner consistent with the capabilities of those resources.

INSTRUCTIONS - Procedures for achieving the objective

Given a simulated hazardous materials/WMD incident or scenario involving a facility or transportation setting, the incident commander shall assign resources to meet the strategic goals of the incident action plan (IAP). Additionally, the incident commander shall redirect resources as necessary to support the completion of tactical objectives as identified in the incident action plan. The incident commander shall establish priorities for the assignment and redistribution of all resources dedicated to the incident. All actions shall be consistent with the local emergency response plan and the organization's standard operating procedures. Do you understand these instructions?

EXAMINER NOTE

The hazardous materials incident commander trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Simulated hazardous materials/WMD incident or scenario involving a facility or transportation setting
List of available resources

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
 Performance Standards

HAZARDOUS MATERIALS INCIDENT COMMANDER
 Directing Resources (Private and Governmental)
Skill #3

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

Examiner: _____

HAZARDOUS MATERIALS INCIDENT COMMANDER	<u>TEST</u>		<u>RETEST</u>	
Implementing the Planned Response - Skill Number #3	S	U	S	U
Given a scenario involving a hazardous materials/WMD incident and the necessary resources to implement the planned response, the incident commander shall demonstrate the ability to direct the resources in a safe and efficient manner consistent with the capabilities of those resources. <p style="text-align: right;">(8.4.2)</p>				
The candidate shall:	S	U	S	U
a) Analyze the incident				
b) Develop strategic goals				
c) Approve tactical objectives				
d) Consult with planning and technical specialists				
e) Consult with logistics concerning resource availability				
f) Prioritize the assignment of resources				
g) Reassign resources as needed				
h) Ensure a safe operational environment				

Evaluator/Candidate Comments:

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
Performance Standards

All steps of the skill objective are mandatory and must be scored as “Satisfactory” to pass the skill.

_____	_____	Overall Skill Sheet Score
Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
_____	_____	Overall Skill Sheet Re-Test Score
Re-Test Certifying Examiner	Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
Performance Standards

HAZARDOUS MATERIALS INCIDENT COMMANDER
Terminating the Incident
Skill #4

PERFORMANCE STANDARD

Section 605

NFPA 472 8.6.2, 8.6.3, 8.6.4

INCIDENT COMMANDER

OBJECTIVE

Given scenarios involving a hazardous materials/WMD incident, the incident commander shall conduct a debriefing of the incident.

Given details of a scenario involving a multiagency hazardous materials/WMD incident, the incident commander shall conduct a critique of the incident.

Given a scenario involving a hazardous materials/WMD incident, the incident commander shall demonstrate the ability to report and document the incident consistent with local, state, and federal requirements.

INSTRUCTIONS - Procedures for achieving the objective

Immediately upon completion of a simulated hazardous materials/WMD incident or scenario involving a facility or transportation setting, the incident commander shall conduct a debriefing of the incident. Additionally, after returning all equipment to service, the incident commander shall conduct a critique of the incident/scenario in a classroom environment. The incident commander will ensure that all incident documentation is thoroughly completed in accordance with local, state and federal requirements. You will begin on my instruction to start. Do you understand these instructions?

EXAMINER NOTE

The hazardous materials incident commander trainee will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT

Simulated hazardous materials/WMD incident or scenario involving a facility or transportation setting

Incident action plan

Site safety plan

Other incident documents

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**TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER**
Performance Standards

HAZARDOUS MATERIALS INCIDENT COMMANDER
Terminating the Incident
Skill #4

Candidate: _____ Notes: _____

Dept: _____

School: _____

Test Site: _____

Examiner: _____

HAZARDOUS MATERIALS INCIDENT COMMANDER	<u>TEST</u>		<u>RETEST</u>	
Terminating the Incident - Skill Number #4	S	U	S	U
Given scenarios involving a hazardous materials/WMD incident, the incident commander shall conduct a debriefing of the incident. <p style="text-align: right;">(8.6.2)</p>				
Given details of a scenario involving a multiagency hazardous materials/WMD incident, the incident commander shall conduct a critique of the incident. <p style="text-align: right;">(8.6.3)</p>				
Given a scenario involving a hazardous materials/WMD incident, the incident commander shall demonstrate the ability to report and document the incident consistent with local, state, and federal requirements. <p style="text-align: right;">(8.6.4)</p>				
The candidate shall:	S	U	S	U
a) Conduct a debriefing				
1. Provide health and exposure information to responders				
2. Identify equipment, apparatus and supply status				
3. Identify a follow-up contact person for informational matters				
4. Identify problems requiring immediate action				

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HAZMAT SKILLS LIST

DISCIPLINE	OBJECTIVE	#	SKILL NAME	FUNCTIONAL NAME	NFPA #
Awareness	General	1	DOT Guidebook	DOT Emergency Response Guidebook	4.1.2.2, 4.2.3, 4.4.1
Awareness	Analyzing	2	Container ID	Container Recognition	4.2.1(6)
Awareness	Analyzing	3	Hazard Recognition	Detecting the Presence of Haz-Mat/WMD	4.2.1(7-9)
Operations	General	1	Response Obj.	Analyze, Plan, Implement, and Evaluate Response	5.1.2.2
Operations	Analyzing	2	Container ID	Container ID - liquid, gas, and solid	5.2.1 (all)
Operations	Analyzing	3	Pesticide Label ID	Identify Pesticide Label Information	5.2.1.3.2
Operations	Analyzing	4	Identify MSDS	Collect hazard and response info using MSDS	5.2.2 (2), (3)
Operations	Analyzing	5	Endangered Area	Estimating the size of an endangered area	5.2.4(1), (2)
Operations	Implementing	6	Enforce scene control	Scene control zones / Public Protective Actions	5.4.1 (1-6)
Operations	Evaluating	7	Communication	Communicating the status of the planned response	5.5.2 (1), (2)
MS Operations	Implementing	1	PPE	Donning, working in, and doffing PPE	6.2.4.1(1-3), (5)
MS Operations	Implementing	2	PPE - Decon	Demonstrate decontamination procedures	6.2.4.1(4)
MS Operations	Planning	3	Product Control ID	Identifying product control options	6.6.3.1(1), (2)
MS Operations	Implementing	4	Product Control	Implementing product control options - Foam	6.6.4.1(1), (2)
MS Operations	Implementing	5	Product Control	Implementing product control options - AHJ	6.6.4.1(3)
MS Operations	Implementing	6	Product Control	Highway cargo tanks remote shut-off	6.6.4.1(4)
MS Operations	Implementing	7	Product Control	Fixed facility remote shut-off devices	6.6.4.1(5)
Technician	Analyzing	1	Contain ID	Containers identification	7.2.1 (all)
Technician	Analyzing	2	Sample testing	Sampling and monitoring/surveying equipment	7.2.1.3.5, 7.2.1.5
Technician	Analyzing	3	Maintenance	Equipment maintenance and use	7.2.1.3.6
Technician	Analyzing	4	Collecting info	Collecting and interpreting information	7.2.2, 7.2.2.4
Technician	Analyzing	5	Protective actions	Identifying areas of concern for PPA	7.2.5.4
Technician	Planning	6	Response Obj.	Identifying response objectives	7.3.1, 7.3.2
Technician	Planning	7	CPC selection	Selecting chemical protective clothing	7.3.3, 7.3.3.4.6
Technician	Planning	8	IAP	Incident action plan	7.3.5, 7.3.5.2
Technician	Implementing	9	ICS	Performing incident command duties	7.4.1
Technician	Implementing	10	CPC selection	Using CPC and respiratory protection	7.4.2 (1-4)
Technician	Implementing	11	Chlorine kits	Chlorine kits	7.4.3(1), (2)
Technician	Implementing	12	Contain leak	Contain a leak in a 55 gallon drum	7.4.3(3), (4)
Technician	Implementing	13	Cargo tank	Highway cargo tank emergency response	7.4.3 (8-11)
Technician	Implementing	14	Decon	Decontamination operations	7.4.5(1-3)
HMIC	Analyzing	1	Site safety plan	Collecting and interpreting hazard and response info.	8.2.1.1
HMIC	Planning	2	IAP	Incident Action Plan	8.3.4
HMIC	Implementing	3	Directing resources	Directing resources (private and governmental)	8.4.2
HMIC	Terminating	4	Terminating the incident	Terminating the incident	8.6.2, 8.6.3, 8.6.4