SKILLS MANUAL

CHAPTER SIX

HAZARDOUS MATERIALS

NFPA 1072, 2017 Edition

Effective January 1, 2021

Texas Commission on Fire Protection
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DISCIPLINE	OBJECTIVE	#	SKILL NAME	FUNCTIONAL NAME	NFPA #
Awareness	All - Comprehensive	1	R&ID, Initiate PA, Notification	Recognition and Identification, Initiate Protective Actions; Notification	4.2.1, 4.2.1(B), 4.3.1, 4.3.1(B), 4.4.1, 4.4.1(B)
Operations	Identify Potential Hazards	1	Identify PH & Action Options	Identify Potential Hazards and Action Options	5.2.1, 5.2.1(B)
Operations	Action Plan Implementation & Progress Evaluation and Reporting	2	Action Plan Implementation & Progress Evaluation and Reporting	Action Plan Implementation	5.4.1, 5.4.1(B),5.6.1, 5.6.1(B)
Operations	Emergency Decon	3	Emergency Decon	Emergency Decontamination	5.5.1, 5.5.1(B)
MS Operations	PPE & Product Control	4	PPE & Product Control	Personal Protective Equipment & Product Control	6.2.1, 6.2.1(B), 6.6.1, 6.6.1(B)
Technician	Analyzing the incident	1	Analyzing the incident	Detection, Monitoring, and Sampling and Hazard and Response Information Collection and Interpretation	7.2.1, 7.2.1(B), 7.2.2, 7.2.2(B)
Technician	Analyzing the incident	2	Analyzing the Incident	Assessing Container Condition, Predicting Behavior, and Estimating Outcomes	7.2.3, 7.2.3(B), 7.2.4, 7.2.4(B), 7.2.5, 7.2.5(B)
Technician	Planning the Response and Evaluating Progress	3	Response Planning & Evaluating Progress	Response Objectives and Outcomes, Decontamination Method Selection, Action Plan Development, and Evaluating and Reporting Progress	7.3.1, 7.3.1(B), 7.3.3, 7.3.3(B), 7.3.4, 7.3.4(B), 7.5.1, 7.5.1(B)
Technician	Implementing the Planned Response	4	Response Planning & Implementing the Planned Response	Personal Protective Equipment (PPE) Selection and Use	7.3.2, 7.3.2(B). 7.4.2, 7.4.2(B)
Technician	Implementing Planned Response and Terminating the Incident	5	Implementing Planned Response and Terminating the Incident	Performing Assigned IMS/ICS Duties and Terminating the Incident	7.4.1, 7.4.1(B), 7.6.1, 7.6.1(B)
Technician	Implementing the Planned Response	6	Performing Control Functions	Product Control and Controlling Container Leaks	7.4.3.1, 7.4.3.1(B), 7.4.3.2, 7.4.3.2(B)
Technician	Implementing the Planned Response	7	Performing Control Functions	Overpacking Nonbulk and Radioactive Materials	7.4.3.3, 7.4.3.3(B)

DISCIPLINE	OBJECTIVE	#	SKILL NAME	FUNCTIONAL NAME	NFPA #
Technician	Implementing the Planned Response	8	Performing Control Functions	Liquid Product Transfer	7.4.3.4, 7.4.3.4(B)
Technician	Implementing the	9	Decontamination	Mass Decontamination	7.4.4.1, 7.4.4.1(B)
Technician	Implementing the Planned Response	10	Decontamination	Technical Decontamination	7.4.4.2, 7.4.4.2(B)
HMIC	All - Comprehensive	1	Analyze, Plan, Implement, Evaluation, Termination	Analyze the Incident, Plan Response, Implement IAP, Evaluate Progress and Terminate	8.2.1, 8.2.1(B), 8.3.1, 8.3.1(B), 8.4.1, 8.4.1(B)8.5.1, 8.5.1(B), 8.6.1, 8.6.1(B)

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) or Safety Data Sheets (SDS) – Samples
Placards & Labels
Transportation/Shipping document – Sample
NFPA 704 sample
Safety Vests
Binoculars

Hazardous Materials Operations

All 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:

- CPC Permeation Guides/Tables
- BOE/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)
- Colorimetric 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)

<u>Hazardous Materials Incident Commander</u>

Reference Material

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

- NFPA *Hazardous Materials / Weapons of Mass Destruction Response Handbook* (current edition)
- CPC Permeation Guides/Tables
- BOE/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
Recognition and Identification; Initiate Protective Actions; Notification
Skill # 1

PERFORMANCE STANDARD **Section 601**

NFPA 1072, 2017 edition, 4.2.1, 4.2.1(B), 4.3.1, 4.3.1(B), 4.4.1, 4.4.1(B) Awareness

OBJECTIVE
Given examples of hazardous materials/WMD incidents, the emergency response plan, the standard operating procedures, and the current edition of the *Emergency Response Guidebook,* safety data sheets and shipping papers, awareness level personnel shall be able to recognize and identify the materials and protective actions to be taken to protect themselves and others and to control access to the scene and make notifications as required. The following requirements shall be met:

4.2.1
Recognize and identify the hazardous materials/WMD and hazards involved in a hazardous materials/WMD incident, given a hazardous materials/WMD incident, and approved reference sources, so that the presence of hazardous materials/WMD is recognized and the materials and their hazards are identified.

4.2.1(B)
Recognizing indicators to the presence of hazardous materials/WMD. Identifying hazardous materials/WMD by name, UN/NA identification number, placard applied, or container identification charts. Using the ERG, SDS, shipping papers with emergency response information, and other approved reference sources to identify hazardous materials/WMD and their potential fire, explosion, and health hazards

4.3.1
Isolate the hazard area and deny entry at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, policies and procedures, and approved reference sources, so that the hazard area is isolated and secured, personal safety procedures are followed, hazards are avoided or minimized, and additional people are not exposed to further harm.

4.3.1(B)
Recognizing precautions for protecting responders and the public Identifying isolation areas, denying entry, and avoiding minimizing hazards.

4.4.1
Initiate required notifications at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, policies and procedures, and approved communications equipment, so that the notification process is initiated, and the necessary information is communicated.

4.4.1(B)
Operating approved communications equipment and communicating in accordance with policies and procedures.

INSTRUCTIONS - procedures for achieving the objective
Given the most current edition of the *Emergency Response Guidebook,* product safety data sheets and shipping papers, 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.

You shall respond verbally or in the written form as may be appropriate. You shall communicate your findings and actions to dispatch (simulated) using approved communication devices. 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?

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

Provide the candidate with an incident scenario. This may be in the form of an actual staged scenario on the training field, a PowerPoint or multimedia presentation/video, or a photograph(s) with narratives.

Allow the candidate to analyze the scenario, they may use the ERG and applicable SDS, shipping papers, and other reference support material provided. The use of WISER on their personal electronic device (cell phone or tablet) is also acceptable.

The candidate may provide a written or verbal response, per the direction of the program coordinator. Their response must include:

1. Identification of the problem/hazard
2. Perform steps to isolation and secure the hazard area
3. Initiate the notification process to Local, State, and Federal response partners
4. A size-up report

The verbal size-up report may be provided to the examiner by radio, cell phone, or simulated (face to face).

PREPARATION & EQUIPMENT

- *Emergency Response Guidebook* (ERG), most current edition
- *Wireless Information System for Emergency Responders* (WISER)
- Safety data sheet(s) (SDS)
- Shipping papers
- Approved communication devices (Radio, cell phone, etc.)
- A written or audio/visual representation of a scene or scenario (i.e. PowerPoint Presentation) or an instructor prepared worksheet.

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Awareness
Performance Standards

GENERAL
Recognition and Identification; Initiate Protective Actions; Notification
Skill #1

Candidate:_____ Date: _____

Academy:_____ Test Site: _____

HAZARDOUS MATERIALS AWARENESS	TEST		RETEST	
Skill #1	**S**	**U**	**S**	**U**
Recognize and identify the hazardous materials/WMD and hazards involved in a hazardous materials/WMD incident, given a hazardous materials/WMD incident, and approved reference sources, so that the presence of hazardous materials/WMD is recognized and the materials and their hazards are identified. 4.2.1 Recognizing indicators to the presence of hazardous materials/WMD. Identifying hazardous materials/WMD by name, UN/NA identification number, placard applied, or container identification charts. Using the ERG, SDS, shipping papers with emergency response information, and other approved reference sources to identify hazardous materials/WMD and their potential fire, explosion, and health hazards. 4.2.1(B) Isolate the hazard area and deny entry at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, policies and procedures, and approved reference sources, so that the hazard area is isolated and secured, personal safety procedures are followed, hazards are avoided or minimized, and additional people are not exposed to further harm. 4.3.1 Recognizing precautions for protecting responders and the public Identifying isolation areas, denying entry, and avoiding minimizing hazards. 4.3.1(B)				

Initiate required notifications at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, policies and procedures, and approved communications equipment, so that the notification process is initiated, and the necessary information is communicated. 4.4.1 Operating approved communications equipment and communicating in accordance with policies and procedures. 4.4.1(B)				
The candidate shall:	**S**	**U**	**S**	**U**
a) Recognize indicators to the presence of hazardous materials/WMD.				
b) Identify hazardous materials/WMD by name, UN/NA identification number, placard applied, or container identification charts.				
c) Use the ERG, applicable SDS, shipping papers with emergency response information, and other approved reference sources to identify hazardous materials/WMD and their potential fire, explosion, and health hazards.				
d) Identify, isolate and secure the hazard area. • Recognize precautions for protecting responders and public • Identify isolation areas • Deny entry • Avoid hazards				
e) Initiate required notifications. • AHJ (Local) • Regulatory agencies (State & Federal) • Other response partners (i.e., Regional Hazmat Team, Mutual Aid, etc.)				
f) Provide size-up report. (CAN Report) • Conditions (product ID, container status, threats) • Actions (protective actions, ID isolation areas) • Needs (additional assistance needed/requested)				
g) Operate approved communications equipment.				

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Awareness
Performance Standards

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet performance objective

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.

_____ Certifying Examiner	_____ Date	Overall Skill Sheet Score Pass ☐ Fail ☐
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

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 Emergency Response Guidebook in it's most current edition.
- 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)

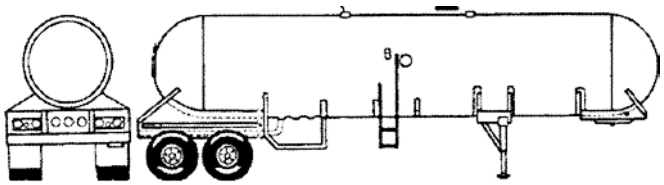
Emergency Response Guidebook Name:_____

Worksheet

Date:_____

Using the most current edition of the ***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?



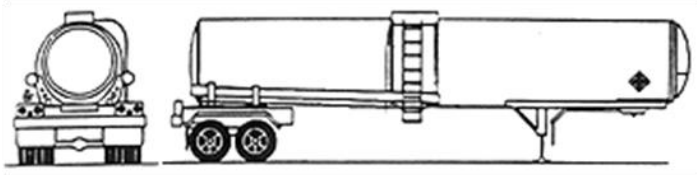
_____

_____

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

_____

3. What type of ***firefighting 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?

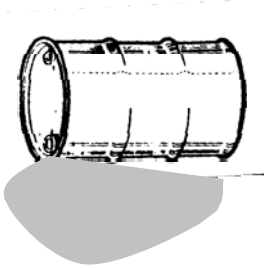
_____

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 #: _____

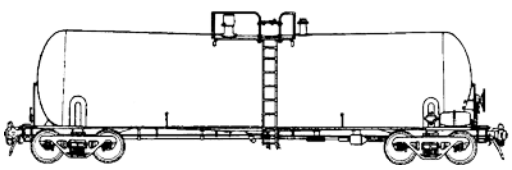
CHEMTREC#: _____

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

_____

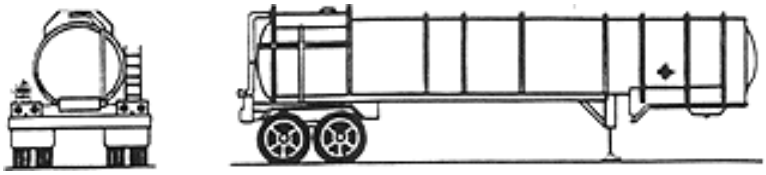
16. Which guide number would you use to find response information about the railcar pictured here?

Guide Number: _____

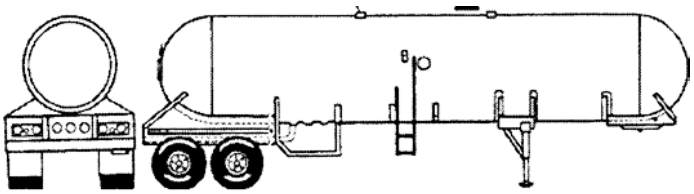


17. Which guide number would you use to find response information about the highway cargo tanker pictured here?

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 it's 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 Emergency Response Guidebook?

1. _____.

2. _____.

3. _____.

4. _____.

5. _____.

6. _____.

7. _____.

8. _____.

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations
Performance Standards

General
Identify Potential Hazards and Action Options
Skill #1

PERFORMANCE STANDARD **Section 602**

NFPA 1072, 2017 edition, 5.2.1, 5.2.1 (B) **Operations**

OBJECTIVES

5.2.1
Identify the scope of the problem at a hazardous materials/WMD incident, given hazardous materials/WMD incident, an assignment, policies and procedures, and approved reference sources, so that container types, materials, location of any release, and surrounding conditions are identified, hazard information is collected, the potential behavior of a material and its container is identified, and the potential hazards, harm, and outcomes associated with that behavior are identified.

5.2.1 (B)
Identifying container types, materials, location of release, and surrounding conditions at a hazardous materials/WMD incident; collecting hazard information; communicating with pipeline operators, carrier representatives or responsible party; describing likely behavior of hazardous materials or WMD and its container; and describing the potential hazards, harm, and outcomes associated with that behavior and the surrounding conditions.

5.3.1
Identify the action options for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, approved reference sources, and the scope of the problem, so that response objectives, action options, safety precautions, suitability of approved personal protective equipment (PPE) available, and emergency decontamination needs are identified.

5.3.1 (B)
Identifying response objectives and action options based on the scope of the problem and available resources; identifying whether approved PPE is suitable incident conditions; and identifying emergency decontamination needs based on the scope of the problem.

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations
Performance Standards

INSTRUCTIONS
You will be given a Hazardous Materials incident scenario, the applicable policies and procedures, and approved reference material, you are to Identify the scope of the problem, Identify the container type or types involved in the scenario to include the location of release, and surrounding conditions. You are to also identify the action options and response objectives to include mode(s) of operation, appropriate personal protective equipment, and emergency decontamination requirements.

You will begin on my instruction to start. The skill will end when you state to me that you have completed all the identified steps and all appropriate tasks.

Do you understand these instructions?

EXAMINER'S NOTE

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

Provide the candidate with an incident scenario. This may be in the form of an actual staged scenario on the training field, a PowerPoint or multimedia presentation/video, or a photograph(s) with narratives.

Allow the candidate to analyze the scenario, they may use the ERG, NIOSH Pocket Guide, and applicable SDS, shipping papers, and other reference support material provided. The use of WISER on their personal electronic device (cell phone or tablet) is also acceptable.

PREPARATION & EQUIPMENT

- *Emergency Response Guidebook (ERG),* most current edition
- *NIOSH Pocket Guidebook to Chemical Hazards,* most current edition
- *Wireless Information System for Emergency Responders* (WISER)
- Safety data sheets(S) (SDS)
- Shipping papers
- PPE/PCP compatibility charts/guides/manuals, if necessary
- A written or audio/visual representation of a scene or scenario provide product information response objectives applicable to policies and procedures according to the examinees AHJ. (i.e., PowerPoint Presentation) or an instructor prepared worksheet as needed.

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations
Performance Standards

General
Identify Potential Hazards and Action Options
Skill #1

Candidate:_____ Date:_____

Academy:_____ Test Site:_____

HAZARDOUS MATERIALS OPERATIONS	TEST		RETEST	
Skill #1	**S**	**U**	**S**	**U**
Identify the scope of the problem at a hazardous materials/WMD incident, given hazardous materials/WMD incident, an assignment, policies and procedures, and approved reference sources, so that container types, materials, location of any release, and surrounding conditions are identified, hazard information is collected, the potential behavior of a material and its container is identified, and the potential hazards, harm, and outcomes associated with that behavior are identified. 5.2.1 Identifying container types, materials, location of release, and surrounding conditions at a hazardous materials/WMD incident; collecting hazard information; communicating with pipeline operators or carrier representatives; describing likely behavior of the hazardous materials or WMD and its container; and describing the potential hazards, harm, and outcomes associated with that behavior and the surrounding conditions. 5.2.1(B) Identify the action options for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, approved reference sources, and the scope of the problem, so that response objectives, action options, safety precautions, suitability of approved personal protective equipment (PPE) available, and emergency decontamination needs are identified. 5.3.1 Identifying response objectives and action options based on the scope of the problem and available resources; identifying whether approved PPE is suitable for incident				

conditions: and identifying emergency decontamination needs based on the scope of the problem. 5.3.1(B)				
The candidate shall:	**S**	**U**	**S**	**U**
a) Identify container types, materials, location of release, and surrounding conditions at a hazardous materials/WMD incident				
b) Collect hazard information				
c) Detail the actions of communicating with pipeline operators, carrier representatives and or responsible party.				
d) Describe likely behavior of the hazardous materials or WMD and its container.				
e) Describe the potential hazards, harm, and outcomes associated with that behavior and the surrounding conditions.				
f) Identify response objectives and action options based on the scope of the problem and available resources.				
g) Identify whether approved PPE is suitable for incident conditions				
h) Identify emergency decontamination needs based on the scope of the problem				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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.

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations
Performance Standards

Certifying Examiner	Date	Overall Skill Sheet Score Pass ☐ Fail ☐
Re-Test Certifying Examiner	Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

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		
Intermediate Bulk Containers & Ton Containers		
	Container Name/Type	
1		
2		
3		
FIXED FACILITY STORAGE TANK		
	Container Name	
1		
2		
3		
RADIOACTIVE MATERIAL PACKAGING		
	Container Name	Characteristics
1		
2		
3		
4		
5		

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?

Safety Data Sheet
Worksheet

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

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

    a. _____

    b. _____

Section 1. Identification

2. What is the chemical/product name? _____
3. What other names can this product be shipped as? _____

    _____
4. How is this chemical used? _____
5. Are there restrictions on its use? If so, what are they? _____

    _____
6. Who is the manufacturer or responsible party? _____
7. What is their emergency contact number or numbers? _____

    _____
8. Who is the shipper? _____
9. What is their contact number? _____
10. What is their Emergency contact number? _____

Section 2. Hazard Identification

11. What is its GHS Classification for Health? _____
12. What is it for Environmental? _____
13. What is it for Physical? _____
14. What is its Signal Word? _____
15. What Hazard Statements are listed? _____

16. What Symbols are used? _____

17. What Precautionary Statements are listed? _____

Section 3. Composition

18. What is the chemical name? _____

19. What is the chemical's common name or synonyms? _____

20. What is the chemical's CAS number? _____

21. If this chemical is a mixture, what are the names and concentrations of the ingredients of the hazardous chemicals in it? _____

Section 4. First Aid Measures

22. What routes of exposure are of concern with this chemical? _____

23. What are the symptoms of exposure?

    a. Acute: _____

b. Chronic: _____

_____

24. What are the First Aid Measures that need to be applied if there is an accidental release with exposure to this product? _____

_____

_____

_____

Section 5. Firefighting Measures

25. What extinguishing agents should be applied to this product in case of a fire?

_____

26. What special hazards should be considered if this chemical is involved in a fire?

_____

_____

27. What protective equipment should be used if this chemical is involved in a fire?

_____

_____

Section 6. Accidental Release Measures

28. What are the precautions and procedures for handling an accidental release of this product?

a. Personal Precautions: _____

_____

b. Protective Equipment: _____

_____

c. Emergency Procedures: _____

_____

_____

d. Environmental Precautions: _____

_____

e. Methods and materials for containment and clean-up: _____

_____

Section 7. Handling and Storage

29. What is the recommended handling procedure for this product? _____

_____

30. What is the recommended storage procedure for this product? _____

_____

31. What products or chemicals are incompatible with this product? _____

_____

Section 8. Exposure Control / Personal Protection

32. What is the PEL? _____

33. What is the STEL? _____

34. What is the IDLH? _____

35. What is the LD50 or LC50? _____

36. What PPE should be used for handling this product? _____

_____

Section 9. Physical and Chemical Properties

37. Appearance: _____

38. Odor: _____

39. PH: _____

40. Melting/Freezing Point: _____

41. Boiling Point: _____

42. Flash Point: _____

43. Specific Gravity: _____

44. Solubility: _____

45. Auto-Ignition Temp: _____

46. Vapor Density: _____

47. Vapor Pressure: _____

48. Expansion Ratio: _____

49. Flammable Range: _____

Section 10. Stability and reactivity

50. Is it stable? If not, why? _____

51. Is it reactive? _____

    a. If so, what is it incompatible with? _____

    b. What does it produce? _____

52. Conditions to avoid? _____

_____

53. Hazardous products of decomposition? _____

_____

Section 11. Toxicological Information

54. Is the product a carcinogen? _____

55. Is this product a teratogen or mutagen? _____

56. Is this product radioactive? _____

Section 12. Ecological Information

57. What are the ecological concerns for a release of this product? _____

_____

Section 13. Disposal considerations

58. What are the recommended disposal considerations for this product? _____

_____

Section 14. Transportation Information

59. What is its proper shipping name? _____

60. What is it's UN #? _____

61. What is its Hazard class or classes? _____

62. In what packing group does it belong? _____

63. Is this chemical/product a marine pollutant? _____

Section 15. Regulatory Information

64. What safety, health, and/or environmental regulations are specific to this product? _____

_____

_____

_____

Section 16. Other Information

65. When was this SDS last revised? _____

66. Is there any other additional information of special concern? _____

_____

_____

_____

_____

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations
Performance Standards

General
Action Plan Implementation
Skill #2

PERFORMANCE STANDARD **Section 602**

NFPA 1072, 2017 edition, 5.4.1, 5.4.1(B), 5.6.1, 5.6.1(B) **Operations**

OBJECTIVE

5.4.1

Perform assigned tasks at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment with limited potential of contact with hazardous materials/WMD, policies and procedures, the scope of the problem, approved tools, equipment, and PPE, so that protective actions and scene control are established and maintained, on-scene incident command is described, evidence is preserved, approved PPE is selected and used in the proper manner; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; assignments are completed; and gross decontamination of personnel, tools, equipment, and PPE is conducted in the field.

5.4.1(B)

Establishing and maintaining scene control; recognizing and preserving evidence; inspecting, donning, working in, going through contamination while wearing, and doffing approved PPE; isolating contaminated tools, equipment, and PPE; conducting gross decontamination contaminated personnel, tools, equipment, and PPE in the field; and cleaning, disinfecting, and inspecting approved tools, equipment, and PPE.

5.6.1

Evaluate and report the progress of the assigned tasks for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, status of assigned tasks, and approved communication tools and equipment, so that the effectiveness of the assigned tasks is evaluated and communicated to the supervisor, who can adjust the IAP as needed.

5.6.1(B)

Determining incident status; determining whether the response objectives are being accomplished; using approved communications and equipment and communicating the status of assigned tasks.

INSTRUCTIONS – procedures for achieving the objective
You, as part of a team, will be provided a scenario, reference material, personal protective clothing (including chemical protective clothing), and decontamination equipment. You shall analyze the incident, identify, and select the appropriate PPE.

Your team shall establish and maintain scene control, determine incident status, recognize, and preserve evidence, select and set up decontamination in a safe area, implement, prevent spread of contamination, avoid hazards and isolate contaminated tools, equipment, and PPE during decontamination.

You and your team will determine the response objectives are being accomplished, select approved communications and equipment, and communicate the status of assigned tasks.

After successfully completing the response objectives, communicating the status of assigned tasks and completion of decontamination you and your team shall clean, disinfect, and inspect approved tools, equipment, and PPE.

With regard to selecting and utilizing the appropriate PPE/CPC; once selected, it must be properly inspected and maintained as recommended. It must also be properly donned, used/work in, and doffed. All PPE/CPC reporting and documentation requirements per the AHJ must be completed.

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 the identified steps. Do you understand these instructions?

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

Provide the candidate with an incident scenario. This may be in the form of an actual staged scenario on the training field, a PowerPoint or multimedia presentation/video, or a photograph(s) with narratives.

Allow the candidate to analyze the scenario, they may use the ERG, NIOSH Pocket Guide, and applicable SDS, shipping papers, and other reference support material provided. The use of WISER on their personal electronic device (cell phone or tablet) is also acceptable.

The candidate will perform as a member of a team. Each member of the team will be randomly selected to perform a different/separate function on the team.

Their response must include:

1. Establish and maintain scene control.
2. Determine incident status.
3. Recognize and preserve evidence.
4. Select and set up decontamination in a safe area.
5. Use approved PPE, inspect, don, work in, go through decontamination while wearing, and doff approved PPE.
6. Determine whether the response objectives are being accomplished.
7. Use approved communications and equipment.
8. Communicate the status of assigned tasks.
9. Implement and avoid hazards during decontamination
10. Isolate contaminated tools, equipment, and PPE.
11. DOFF PPE, conduct decontamination of contaminated personnel, and gross decontamination of tools, equipment, and PPE in the field.
12. Clean disinfect, and inspect approved tools, equipment, and PPE.

PREPARATION & EQUIPMENT

- *Emergency Response Guidebook (ERG),* most current edition
- *NIOSH Pocket Guidebook to Chemical Hazards,* most current edition
- *Wireless Information System for Emergency Responders* (WISER)
- Safety data sheets(S) (SDS)
- Shipping papers
- PPE/PCP compatibility charts/guides/manuals
- PPE/CPC including:
    - Vapor Protective Clothing (Level A)
    - Splash Protective Clothing (Level B)
    - Support Protective Garments (Level C)
    - Primary Protective Work Garments (Level D)
    - Structural Firefighting Protective Ensembles (Bunker Gear)
    - Positive Pressure Self-Contained Breathing Apparatus (SCBA)
    - Air Purifying Respirators (APR or PAPR)
- Approved communication devices (Radio, cell phone, etc.)
- Decontamination supplies/equipment
- A written or audio/visual representation of a scene or scenario (i.e., PowerPoint Presentation) or an instructor prepared worksheet as needed.

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations
Performance Standards

General
Action Plan Implementation
Skill #2

Candidate:_____ Date:_____

Academy:_____ Test Site:_____

HAZARDOUS MATERIALS OPERATIONS	TEST		RETEST	
Skill #2	**S**	**U**	**S**	**U**
Perform assigned tasks at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment with limited potential of contact with hazardous materials/WMD, policies and procedures, the scope of the problem, approved tools, equipment, and PPE, so that protective actions and scene control are established and maintained, on-scene incident command is described, evidence is preserved, approved PPE is selected and used in the proper manner; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; assignments are completed; and gross decontamination of personnel, tools, equipment, and PPE is conducted in the field. (5.4.1) Establishing and maintaining scene control; recognizing and preserving evidence; inspecting, donning, working in, going through contamination while wearing, and doffing approved PPE; isolating contaminated tools, equipment, and PPE; conducting gross decontamination contaminated personnel, tools, equipment, and PPE in the field; and cleaning, disinfecting, and inspecting approved tools, equipment, and PPE. (5.4.1(B)) Evaluate and report the progress of the assigned tasks for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, status of assigned tasks, and approved communication tools and equipment, so that the effectiveness of the assigned tasks is evaluated and communicated to the supervisor, who can adjust the IAP as needed. (5.6.1)				

Determining incident status; determining whether the response objectives are being accomplished; using approved communications and equipment and communicating the status of assigned tasks. (5.6.1(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Establish and maintain scene control				
b) Determine incident status				
c) Recognize and preserve evidence				
d) Set up decontamination in a safe area				
e) Use approved PPE in the proper manner				
f) Inspect, don, work in, and go through decontamination while wearing approved PPE				
g) Determine whether the response objectives are being accomplished				
h) Use approved communications and equipment				
i) Communicate the status of assigned tasks				
j) Prevent spread of contamination				
k) Avoid hazards during decontamination				
l) Isolate contaminated tools, equipment, and PPE				
m) Conduct decontamination of contaminated personnel, and gross decontamination of tools, equipment and PPE in the field, and doff PPE				
n) Clean, disinfect, and inspect approved tools, equipment, and PPE				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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.

Certifying Examiner	Date	Overall Skill Sheet Score Pass ☐ Fail ☐
Re-Test Certifying Examiner	Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations
Performance Standards

General
Emergency Decontamination
Skill #3

PERFORMANCE STANDARD **Section 602**

NFPA 1072, 2017 edition, 5.5.1, 5.5.1(B) **Operations**

OBJECTIVE
5.5.1
Perform emergency decontamination at a hazardous materials/WMD incident, given a hazardous materials/WMD incident that requires emergency decontamination; an assignment; scope of the problem; policies and procedures; and approved tools, equipment, and PPE for emergency decontamination, so that emergency decontamination needs are identified, approved PPE is selected and used, exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized, emergency decontamination is set up and implemented, and victims and responders are decontaminated.

5.5.1(B)
Selecting an emergency decontamination method; setting up emergency decontamination in a safe area; using PPE in the proper manner; implementing emergency decontamination; preventing spread of contamination; and avoiding hazards during emergency decontamination.

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 emergency 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?

EXAMINER'S NOTE
The candidate will not be allowed to review the performance steps at the time of testing. Provide the candidate with an incident scenario. This may be in the form of an actual staged scenario on the training field, a PowerPoint or multimedia presentation/video, or a photograph(s) with narratives.

Allow the candidate to analyze the scenario, they may use the ERG, NIOSH Pocket Guide, an applicable SDS, shipping papers, and other reference support material provided. The use of WISER on their personal electronic device (cell phone or tablet) is also acceptable.

PREPARATION & EQUIPMENT

- Hazardous materials incident scenario
- Reference material
- Personal protective equipment provided by the AHJ
- Emergency response and hazardous materials response equipment
- Decontamination equipment

TEXAS COMMISSION ON FIRE PROTECTION
Hazardous Materials Operations
Performance Standards

General
Emergency Decontamination
Skill #3

Candidate:_____ Date:_____

Academy:_____ Test Site:_____

HAZARDOUS MATERIALS OPERATIONS	TEST		RETEST	
Skill #3	**S**	**U**	**S**	**U**
Perform emergency decontamination at a hazardous materials/WMD incident, given a hazardous materials/WMD incident that requires emergency decontamination; an assignment; scope of the problem; policies and procedures; and approved tools, equipment, and PPE for emergency decontamination, so that emergency decontamination needs are identified, approved PPE is selected and used, exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized, emergency decontamination is set up and implemented, and victims and responders are decontaminated. 5.5.1 Selecting an emergency contamination method; setting up emergency decontamination in a safe area; using PPE in the proper manner; implementing emergency decontamination; preventing spread of contamination; and avoiding hazards during emergency decontamination. 5.5.1(B)				
The candidate shall:	**S**	**U**	**S**	**U**
a) Select an emergency contamination method				
b) Set up emergency decontamination in a safe area				
c) Use approved PPE in the proper manner				
d) Implement emergency decontamination				
e) Prevent spread of contamination				
f) Avoid hazards during emergency decontamination				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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.

_____ Certifying Examiner	_____ Date	Overall Skill Sheet Score Pass ☐ Fail ☐
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

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

General
Personal Protective Equipment & Product Control
Skill #4

PERFORMANCE STANDARD **Section 603**

NFPA1072, 2017 edition, 6.2.1, 6.2.1(B), 6.6.1, 6.6.1(B) Operations-MSC (PPE & PC)

OBJECTIVES

6.2.1
Select, don, work in, and doff approved PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; a mission-specific assignment in an IAP that requires use of PPE; the scope of the problem; response objectives and options for the incident; access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures; approved PPE; and policies and procedures, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected, inspected, donned, worked in, decontaminated, and doffed; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; and all reports and documentation pertaining to PPE use are completed.

6.2.1(B)
Selecting PPE for the assignment; inspecting, maintaining, storing, donning, working in, and doffing PPE; going through decontamination process (emergency and technical) while wearing PPE; reporting and documenting the use of PPE.

6.6.1
Perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.
6.6.1(B)

Selecting and using PPE; selecting and performing product control techniques to confine/contain the release with limited risk of personal exposure; using approved control agents and equipment on a release involving hazardous materials/WMD; using remote control valves and emergency shutoff devices on cargo tanks and intermodal tanks in transportation and containers at fixed facilities; and performing product control techniques.

INSTRUCTIONS - procedures for achieving the objective
You, as part of team, will be provided a scenario, reference material, personal protective clothing, and equipment (including chemical protective clothing), product control equipment, and decontamination equipment. You shall analyze the incident, identify, and select the appropriate PPE and product control options.

Your team shall establish an incident response plan that includes identifying the products and hazards involved, selecting the appropriate PPE/CPC, select and perform product control techniques to confine/contain the release with limited risk of personal exposure while identifying which approved control agents and/or equipment are appropriate to use on a release involving the identified hazardous materials/WMD.

You and your team will demonstrate competence in using remote control valves and emergency shutoff devices on cargo tanks and intermodal tanks in transportation and containers at fixed facilities as relevant to the scenario provided and perform product control techniques appropriate to situation.

After successfully completing product control actions, you and your team will perform appropriate decontamination procedures (emergency and/or technical).

With regard to selecting and utilizing the appropriate PPE/CPC; once selected, it must be properly inspected and maintained as recommended. It must also be properly donned, used/work in, and doffed. All PPE/CPC reporting and documentation requirements per the AHJ must be completed.

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 the identified steps. Do you understand these instructions?

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

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

Provide the candidate with an incident scenario. This may be in the form of an actual staged scenario on the training field, a PowerPoint or multimedia presentation/video, or a photograph(s) with narratives.

Allow the candidate to analyze the scenario, they may use the ERG, NIOSH Pocket Guide, and applicable SDS, shipping papers, and other reference support material provided. The use of WISER on their personal electronic device (cell phone or tablet) is also acceptable.

The candidate will perform as a member of a team. Each member of the team will be randomly selected to perform a different/separate function on the team.

Their response must include:

1. Identifying the products and hazards involved
2. Selecting the appropriate PPE/CPC.
3. Selecting and performing product control techniques to confine/contain the release with limited risk of personal exposure.
4. Identification of approved control agents and/or equipment appropriate for use on the identified hazardous materials/WMD.
5. Demonstration of competence in using remote control valves and emergency shutoff devices on cargo tanks and intermodal tanks in transportation and containers at fixed facilities as may be relevant to the scenario provided.
6. Perform product control techniques appropriate to situation.
7. Performance of appropriate decontamination procedures (emergency and/or technical).

PREPARATION & EQUIPMENT

- *Emergency Response Guidebook* (ERG), most current edition
- *NIOSH Pocket Guide to Chemical Hazards*, most current edition
- *Wireless Information System for Emergency Responders* (WISER)
- Safety data sheet(s) (SDS)
- Shipping papers
- Monitoring and Detection equipment (Simulators/training aids are acceptable)
- PPE/CPC compatibility charts/guides/manuals
- PPE/CPC including:
- Vapor Protective Clothing (Level A)
- Splash Protective Clothing (Level B)
- Support Protective Garments (Level C)
- Primary Protective Work Garments (Level D)

- Structural Firefighting Protective Ensembles (Bunker Gear)
- Positive Pressure Self-Contained Breathing Apparatus (SCBA)
- Air Purifying Respirators (APR or PAPR)
- Approved communication devices (Radio, cell phone, etc.)
- Product Control Equipment (Absorbent boom/pad material, adsorbent material, foam concentrate (or simulated) and foam production devices, diking, damming, confinement and containment equipment and material).
- Decontamination supplies/equipment
- A written or audio/visual representation of a scene or scenario (i.e. PowerPoint Presentation) or an instructor prepared worksheet as needed.

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

General
Personal Protective Equipment & Product Control
Skill #4

Candidate:_____ Date:_____

Academy:_____ Test Site:_____

HAZARDOUS MATERIALS OPERATIONS MISSION SPECIFIC COMPETENCIES	TEST		RETEST	
Skill #4	**S**	**U**	**S**	**U**
Select, don, work in, and doff approved PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; a mission-specific assignment in an IAP that requires use of PPE; the scope of the problem; response objectives and options for the incident; access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures; approved PPE; and policies and procedures, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected, inspected, donned, worked in, decontaminated, and doffed; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; and all reports and documentation pertaining to PPE use are completed. (6.2.1) Selecting PPE for the assignment; inspecting, maintaining, storing, donning, working in, and doffing PPE; going through decontamination process (emergency and technical) while wearing PPE; reporting and documenting the use of PPE. (6.2.1(B)) Perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control				

agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented. (6.6.1) Selecting and using PPE; selecting and performing product control techniques to confine/contain the release with limited risk of personal exposure; using approved control agents and equipment on a release involving hazardous materials/WMD; using remote control valves and emergency shutoff devices on cargo tanks and intermodal tanks in transportation and containers at fixed facilities; and performing product control techniques. (6.6.1(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Select and use the appropriate PPE for the assignment				
b) Demonstrate the following PPE skills: • Inspection • Maintenance • Donning • Working in • Doffing				
c) Select and perform product control techniques to confine/contain the release with limited risk of personal exposure				
d) Identify which approved control agents and equipment to use on a release involving hazardous materials/WMD				
e) Demonstrate competence in using remote control valves and emergency shutoff devices on cargo tanks				

and intermodal tanks in transportation and/or containers at fixed facilities (Based on scenario provided)				
f) Perform product control techniques appropriate to situation				
g) Demonstrate competence in going through decontamination procedures (emergency and technical) while wearing PPE				
h) Report and document use of PPE				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet performance objective

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.

_____ Certifying Examiner	_____ Date	Overall Skill Sheet Score Pass ☐ Fail ☐
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Analyzing the Incident
Detection, Monitoring and Sampling and Hazard and Response Information Collection and Interpretation
Skill #1

PERFORMANCE STANDARD **Section 604**

NFPA 1072, 2017 edition, 7.2.1, 7.2.1(B), 7.2.2, 7.2.2(B) **TECHNICIAN**

OBJECTIVE

7.2.1

Classify hazardous materials/WMD and verify the presence and concentrations of hazardous materials through detection, monitoring, and sampling at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with released identified and unidentified hazardous materials; an assignment in an incident action plan (IAP); policies and procedures; approved resources; detection and monitoring equipment; and personal protective equipment (PPE), so that PPE is selected and used; hazardous materials/WMD are classified by their basic hazard categories; the presence of hazardous materials is verified; the concentrations of hazardous materials in the atmosphere are determined; signs of exposure in victims and responders are recognized and identified; samples of solids, liquids, and gases are collected; results of detection and monitoring equipment are read, interpreted, recorded, and communicated; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; personnel using the detection, monitoring, and sampling equipment, as well as the equipment, are decontaminated; detection, monitoring, and sampling equipment is maintained according to manufacturers' recommendations; and detection, monitoring, and sampling operations are reported and documented.

7.2.1(B)

Selecting and using PPE; determining radiation dose rates from radioactive material labels; using each of the following types of detection, monitoring, and sampling equipment [colorimetric (e.g., tubes, chips, papers, strips, reagents); electrochemical cells (e.g. toxic gas sensors), flammable gas/LEL, noncontact thermal detection device, oxygen concentration, photoionization detector (PID), and radiation detection and monitoring devices] to either classify hazardous materials by basic hazard categories, verify the presence of hazardous materials or determine the concentration of hazardous materials; collect samples gases, liquids, and solids; monitoring, reading, interpreting, reporting, and communicating readings from detection, monitoring, and sampling equipment according to the manufacturers' specifications and recommendations; and

completing required reports and supporting documentation for detection, monitoring, and sampling operations.

7.2.2
Collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, approved reference sources, and approved tools and equipment, so that hazard and response information is collected, interpreted, and communicated.

7.2.2(B)
Collecting and interpreting hazard and response information; identifying signs and symptoms of exposure to hazardous materials/WMD, including target organ effects of exposure to hazardous materials/WMD; and determining radiation exposure rates from labels attached to radioactive materials and containers.

INSTRUCTIONS
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).

Given radiation monitoring, surveying and detection instruments/equipment, and a suspect package, you will demonstrate the procedure for surveying the package to determine if it has been breached. You will also provide an analysis of your surveying and monitoring actions.

Given a simulated hazardous materials incident, involving either a pipeline, a mode of transportation or a fixed facility 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

The technician, operating as a member of a team at a simulated hazardous materials incident, shall demonstrate how to collect and interpret hazard and response information at a hazardous materials/WMD 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?

EXAMINER'S NOTE
If this skill is selected as a designated testing skill by TCFP, one of the following four options will be assigned:

- Scenario A: Pipeline Release
- Scenario B: Transportation Container Incident (Highway Cargo, Railcar, Maritime, or Aviation)
- Scenario C: Fixed Facilities Incident
- Scenario D: Radiological Incident

PREPARATION & EQUIPMENT
Firefighter Ensemble including Self Contained Breathing Apparatus (SCBA)
Chemical Protective Clothing (CPC) and appropriate respiratory protection equipment
Grab sample kit
Pre-determined sampling material
Haz-Mat WMD Chemical detection and monitoring equipment, per AHJ

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Analyzing the Incident
Detection, Monitoring and Sampling and Hazard and Response Information Collection and Interpretation
Skill #1

Candidate:_____ Date:_____

Academy: _____ Test Site:_____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Skill #1	**S**	**U**	**S**	**U**
Classify hazardous materials/WMD and verify the presence and concentrations of hazardous materials through detection, monitoring, and sampling at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with released identified and unidentified hazardous materials; an assignment in an incident action plan (IAP); policies and procedures; approved resources; detection and monitoring equipment; and personal protective equipment (PPE), so that PPE is selected and used; hazardous materials/WMD are classified by their basic hazard categories; the presence of hazardous materials is verified; the concentrations of hazardous materials in the atmosphere are determined; signs of exposure in victims and responders are recognized and identified; samples of solids, liquids, and gases are collected; results of detection and monitoring equipment are read, interpreted, recorded, and communicated; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; personnel using the detection, monitoring, and sampling equipment, as well as the equipment, are decontaminated; detection, monitoring, and sampling equipment is maintained according to manufacturers' recommendations; and detection, monitoring, and sampling operations are reported and documented. (7.2.1) Selecting and using PPE; determining radiation dose rates from radioactive material labels; using each of the following				

types of detection, monitoring, and sampling equipment [colorimetric (e.g., tubes, chips, papers, strips, reagents); electrochemical cells (e.g., toxic gas sensors), flammable gas/LEL, noncontact thermal detection device, oxygen concentration, photoionization detector (PID), and radiation detection and monitoring devices] to either classify hazardous materials by basic hazard categories, verify the presence of hazardous materials or determine the concentration of hazardous materials; collect samples of gases, liquids, and solids; monitoring, reading, interpreting, reporting, and communicating readings from detection, monitoring, and sampling equipment according to the manufacturers' specifications and recommendations; and completing required reports and supporting documentation for detection, monitoring, and sampling operations. (7.2.1(B)) Collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, approved reference sources, and approved tools and equipment, so that hazard and response information is collected, interpreted, and communicated. (7.2.2) Collecting and interpreting hazard and response information; identifying signs and symptoms of exposure to hazardous materials/WMD, including target organ effects of exposure to hazardous materials/WMD; and determining radiation exposure rates from labels attached to radioactive materials and containers. (7.2.2(B))				
The candidate shall:	**S**	**U**	**S**	**U**
Using each of the following types of detection, monitoring and sampling equipment: • Colorimetric (e.g., tubes, chips, papers, strips, reagents) • Electrochemical cells (e.g., toxic gas sensors) • Flammable gas/LEL • Noncontact thermal detection device • Oxygen concentration				

• Photoionization detector (PID) * Radiation detection and monitoring devices				
a) Classify hazardous materials by basic hazard categories or verify the presence of hazardous materials or determine the concentration of hazardous materials				
b) Collect samples of gases, liquids, and solids				
c) Monitor, read, interpret, report, and communicate readings from detection, monitoring, and sampling equipment according to the manufacturers' specifications and recommendations				
d) Determine radiation exposure rates from labels attached to radioactive materials and containers				
e) Identify signs and symptoms of exposure to hazardous materials/WMD, including target organ effects of exposure to hazardous materials/WMD				
f) Collect and interpret hazard and response information				
g) Select and use approved PPE				
h) Complete required reports and supporting documentation for detection, monitoring, and sampling operations				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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 Pass ☐ Fail ☐
Certifying Examiner	Date	
_____	_____	Overall Skill Sheet Re-Test Score

Re-Test Certifying Examiner	Date	Pass □ Fail ☐

Chemical Data Worksheet

Chemical Name:				Date
Synonym/Trade Names:				DOT UN #
Physical Description:				CAS #
Molecular Formula:		Molecular Weight:		Structure:
Physical, Chemical and Toxicological Properties				
	Source #1	Source #2	Source #3	Source #4
Reference Source				
Page #				
Physical Properties				
Physical State/Form				
Molecular Weight				
Boiling Point				
Melting Point				
Freezing Point				
Specific Gravity				
Solubility				
Flash Point				
Ignition Temp.				
Flammable Limits (UEL/LEL)				
Ionization Potential				
Vapor Density				
Vapor Pressure				
Other				
Chemical Properties				
Reactivities/Incompatibilities				
Corrosively (pH)				
Fire/Spill/Release Rec.				
Other				
Toxicological Properties				
TLV-TWA, -C, -STEL				
PEL or REL				
IDLH				
LD_{50}, LC_{50}				
Radioactivity				
Carcinogen/Mutagen/Teratogen				
Routes of Entry				
Target Organs/ Signs & Symptoms				
First Aid				
Toxic Products of Combustion				
PPE/CPC Recommendations				
Respiratory Protection				

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Analyzing the Incident
Assessing Container Condition, Predicting Behavior, and Estimating Outcomes
Skill #2

PERFORMANCE STANDARD **Section 604**

NFPA 1072, 2017 edition, 7.2.3, 7.2.3(B), 7.2.4, 7.2.4(B), 7.2.5, 7.2.5(B) TECHNICIAN

OBJECTIVE

7.2.3

Collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, approved reference sources, and approved tools and equipment, so that hazard and response information is collected, interpreted, and communicated.

7.2.3(B)

Assessing the condition of the container and its closures, identifying the type of damage and level of risk associated with the damage, identifying stress(es) on the container and its closures and the level of risk associated with that condition.

7.2.4

Predict the behavior of the hazardous materials/WMD involved in a hazardous materials/WMD incident, given an incident involving multiple hazardous materials/WMD; an assignment in an IAP; policies and procedures; physical and chemical properties of the materials involved; results of detection, monitoring, and sampling; condition of the container (damage and stress); surrounding conditions; and approved reference sources, so that the behavior of each hazardous materials/WMD container and its contents is identified, the reactivity issues and hazards of the combined materials are identified, and a description of the likely behavior of the hazards is communicated.

7.2.4(B)

Using the process to predict likely behavior of materials and their containers when multiple materials are involved, identifying reactivity issues associated with mixing various hazardous materials, and communicating the predicted behavior.

7.2.5

Estimate the potential outcomes at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, the likely behavior of the container and its contents, and approved resources and equipment, so that the concentrations of materials within the endangered area are measured or predicted; physical, health, and safety hazards within the endangered area

are identified; areas of potential harm in the endangered area are identified; potential outcomes within the endangered area are identified; and potential outcomes are communicated.

7.2.5(B)
Using approved resources and equipment; determining concentrations of materials within the endangered area; identifying the physical, health and safety hazards within the endangered area; identifying the areas of potential harm in the endangered area; estimating the potential outcomes in the endangered area; and communicating the potential outcomes.

INSTRUCTIONS

Given a simulated Hazardous Materials/WMD incident and approved reference sources (hard copy and electronic databases – i.e., ERG, SDS, NIOSH Pocket Guide, WISER, CAMEO, etc.), product safety data sheets and shipping papers, you shall analyze, identify and describe, as may be required, the actions that are appropriate for the safe implementation of appropriate response measures.

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

EXAMINER'S NOTE

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

Provide the candidate with an incident scenario. This may be in the form of an actual staged scenario on the training field, a PowerPoint or multimedia presentation/video, or a photograph(s) with narratives.

Allow the candidate to analyze the scenario, they may use any applicable reference support material provided. The use of WISER or CAMEO on their personal electronic device (cell phone or tablet) or provided electronic equipment is also acceptable.

The candidate may provide a written or verbal response, per the direction of the program coordinator.

PREPARATION & EQUIPMENT

- A written or audio/visual representation of a Hazardous Materials/WMD incident scenario(s) - i.e., PowerPoint Presentation or an instructor prepared worksheet.
- An Incident Action Plan (IAP)

- AHJ Policies and Procedures
- Monitoring and Detection Equipment – Examples:
  - Radiation detection and survey equipment/devices
  - Chemical detection and survey equipment/devices/kits/strips
  - Thermal Imaging Camera(s) (TIC)
- Approved Reference Sources – Examples:
- Emergency Response Guidebook (ERG), most current edition
  - NIOSH Pocket Guide to Chemical Hazards, most current edition
  - Wireless Information System for Emergency Responders (WISER), Computer Aided Management of Emergency Operations (CAMEO), etc.
  - Safety data sheet(s) (SDS)
  - Shipping papers

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Analyzing the Incident
Assessing Container Condition, Predicting Behavior, and Estimating Outcomes
Skill #2

Candidate:_____ Date:_____

Academy:_____ Test Site:_____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Skill #2	**S**	**U**	**S**	**U**
Collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, approved reference sources, and approved tools and equipment, so that hazard and response information is collected, interpreted, and communicated. (7.2.3) Assessing the condition of the container and its closures, identifying the type of damage and level of risk associated with the damage, identifying stress(es) on the container and its closures and the level of risk associated with that condition. (7.2.3(B)) Predict the behavior of the hazardous materials/WMD involved in a hazardous materials/WMD incident, given an incident involving multiple hazardous materials/WMD; an assignment in an IAP; policies and procedures; physical and chemical properties of the materials involved; results of detection, monitoring, and sampling; condition of the container (damage and stress); surrounding conditions; and approved reference sources, so that the behavior of each hazardous materials/WMD container and its contents is identified, the reactivity issues and hazards of the combined materials are identified, and a description of the likely behavior of the hazards is communicated. (7.2.4)				

Using the process to predict likely behavior of materials and their containers when multiple materials are involved, identifying reactivity issues associated with mixing various hazardous materials, and communicating the predicted behavior. (7.2.4(B)) Estimate the potential outcomes at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, the likely behavior of the container and its contents, and approved resources and equipment, so that the concentrations of materials within the endangered area are measured or predicted; physical, health, and safety hazards within the endangered area are identified; areas of potential harm in the endangered area are identified; potential outcomes within the endangered area are identified; and potential outcomes are communicated. (7.2.5) Using approved resources and equipment; determining concentrations of materials within the endangered area; identifying the physical, health and safety hazards within the endangered area; identifying the areas of potential harm in the endangered area; estimating the potential outcomes in the endangered area; and communicating the potential outcomes. (7.2.5(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Assess the condition of the container and its closures				
b) Identify the type of damage and level of risk associated with the damage				
c) Identify stress(es) on the container and its closures and the level of risk associated with that condition				
d) Use the process to predict likely behavior of materials and their containers when multiple materials are involved				
e) Identify reactivity issues associated with mixing various hazardous materials				
f) Communicate the predicted behavior				
g) Use approved resources and equipment				

h) Determine concentrations of materials within the endangered area				
i) Identify the physical, health and safety hazards within the endangered area				
j) Identify the areas of potential harm in the endangered area				
k) Estimate the potential outcomes in the endangered area				
l) Communicate the potential outcomes				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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 ☐ Fail ☐
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

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				

Intermediate Bulk Containers & Ton Containers		
	Container Name	Typical Contents
1		
2		
3		

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

Response Planning
Response Objectives and Outcomes, Decontamination Method Selection, Action Plan Development, and Evaluating and Reporting Progress
Skill #3

PERFORMANCE STANDARD **Section 604**

NFPA 1072, 2017 edition, 7.3.1, 7.3.1(B), 7.3.3, 7.3.3(B), 7.3.4, 7.3.4(B), 7.5.1, 7.5.1(B) **TECHNICIAN**

OBJECTIVE

7.3.1
Develop and recommend to the incident commander or hazardous materials officer response objectives and action options at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis, including incident-related information, life safety risks, environmental risks, and property risks; available resources; and policies and procedures, so that response objectives are identified for the incident and action options are identified for each response objective.

7.3.1(B)
Developing response objectives for a hazardous materials incident and identifying action options for each response objective.

7.3.3
Select the decontamination method for a given response option at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, results of the incident analysis, response objectives and options for the incident, available resources, and policies and procedures, so that a decontamination method to minimize the hazards for each response option is identified and the equipment required to implement the decontamination method is identified.

7.3.3(B)
Selecting decontamination procedures (operations and methods) and identifying the equipment required to implement decontamination procedure (operations and methods).

7.3.4
Develop a plan of action for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, results of the incident analysis, response objectives and options for the given incident, available resources, and policies and procedures, so that the tasks and resources required to meet the response objectives are identified, specified response objectives and response options are

addressed, plan is consistent with the emergency response plan and policies and procedures, and plan is within the capability of available personnel, PPE, and control equipment.

7.3.4(B)
Preparing an action plan, identifying site safety and control components, identifying points for a safety briefing, identifying pre-entry tasks, identifying atmospheric and physical safety hazards when incident involves a confined space, and preserving and collecting legal evidence.

7.5.1
Evaluate and report the progress of assigned tasks at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, current incident conditions, response options and actions taken, and approved communication equipment, so that the actual behavior of material and container is compared to that predicted, the effectiveness of response options and actions in accomplishing response objectives is determined, modifications to the response options and actions are made, and the results are communicated.

7.5.1(B)
Comparing predicted behavior of the material and its container to the actual behavior, determining effectiveness of response options and actions, communicating the status of response options and actions, and modifying the response options and actions based on the incident status review.

INSTRUCTIONS

The technician, operating as a member of a team at a simulated hazardous materials incident, shall Identify and develop response objectives, action options, and decontamination methods for the approval of the Incident Commander. Upon the approval of the Incident Commander, develop a plan of action to meet the response objectives identified in the Incident Action Plan (IAP) ensuring that all site safety components of the plan are met. The Technician will then continue to evaluate and report the progress of assigned tasks to Command and evaluate, compare, and predict the effectiveness of response options/actions and modify as need to meet the response objectives.

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?

EXAMINER'S NOTES

If this skill is selected as a designated testing skill by TCFP, one of the following three options will be assigned:

- Scenario A: A transportation emergency involving a chemical or flammable material release.
- Scenario B: A fixed facility emergency involving a chemical or flammable material release.
- Scenario C: A radiological emergency.

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

Provide the candidates with an incident scenario. This may be in the form of an actual staged scenario on the training field, a PowerPoint or multimedia presentation/video, or a photograph(s) with narratives.

Allow the candidates to analyze the scenario, they may use any applicable reference support material provided. The use of WISER or CAMEO on their personal electronic device (cell phone or tablet) or provided electronic equipment is also acceptable.

The candidates may provide a written or verbal response, per the direction of the field examiner.

PREPARATION & EQUIPMENT

- A written or audio/visual representation of a Hazardous Materials/WMD incident scenario(s) - i.e. PowerPoint Presentation or an instructor prepared worksheet.
- An Incident Action Plan (IAP)
- AHJ Policies and Procedures
- Approved Reference Sources – Examples:
  - Emergency Response Guidebook (ERG), most current edition
  - NIOSH Pocket Guide to Chemical Hazards, most current edition
  - Wireless Information System for Emergency Responders (WISER), Computer Aided Management of Emergency Operations (CAMEO), etc.
  - Safety data sheet(s) (SDS)
  - Shipping papers
- ICS forms or ICS worksheets**
- Applicable AHJ reports and documentation

**Note: Standard ICS forms may 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 208 HM Site Safety and Control Plan

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Response Planning
Response Objectives and Outcomes, Decontamination Method Selection, Action Plan Development, and Evaluating and Reporting Progress
Skill #3

Candidate:_____ Date:_____

Academy:_____ Test Site:_____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Skill #3	**S**	**U**	**S**	**U**
Develop and recommend to the incident commander or hazardous materials officer response objectives and action options at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis, including incident-related information, life safety risks, environmental risks, and property risks; available resources; and policies and procedures, so that response objectives are identified for the incident and action options are identified for each response objective. (7.3.1) Developing response objectives for a hazardous materials incident and identifying action options for each response objective. (7.3.1(B)) Select the decontamination method for a given response option at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, results of the incident analysis, response objectives and options for the incident, available resources, and policies and procedures, so that a decontamination method to minimize the hazards for each response option is identified and the equipment required to implement the decontamination method is identified. (7.3.3) Selecting decontamination procedures (operations and methods) and identifying the equipment required to implement decontamination procedure (operations and methods). (7.3.3(B))				

Develop a plan of action for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, results of the incident analysis, response objectives and options for the given incident, available resources, and policies and procedures, so that the tasks and resources required to meet the response objectives are identified, specified response objectives and response options are addressed, plan is consistent with the emergency response plan and policies and procedures, and plan is within the capability of available personnel, PPE, and control equipment. (7.3.4) Preparing an action plan, identifying site safety and control components, identifying points for a safety briefing, identifying pre-entry tasks, identifying atmospheric and physical safety hazards when incident involves a confined space, and preserving and collecting legal evidence. (7.3.4(B)) Evaluate and report the progress of assigned tasks at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, current incident conditions, response options and actions taken, and approved communication equipment, so that the actual behavior of material and container is compared to that predicted, the effectiveness of response options and actions in accomplishing response objectives is determined, modifications to the response options and actions are made, and the results are communicated. (7.5.1) Comparing predicted behavior of the material and its container to the actual behavior, determining effectiveness of response options and actions, communicating the status of response options and actions, and modifying the response options and actions based on the incident status review. (7.5.1(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Develop response objectives for a hazardous materials incident				
b) Identify action options for each response objective				
c) Select decontamination procedures (operations and				

methods)				
d) Identify the equipment required to implement decontamination procedure (operations and methods)				
e) Prepare an action plan				
f) Identify site safety and control components				
g) Identify points for a safety briefing				
h) Identify pre-entry tasks				
i) Identify atmospheric and physical safety hazards when incident involves a confined space				
j) Preserve and collect legal evidence				
k) Compare predicted behavior of the material and its container to the actual behavior				
l) Determine effectiveness of response options and actions				
m) Communicate the status of response options and actions				
n) Modify the response options and actions based on the incident status review				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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 Pass ☐ Fail ☐
Certifying Examiner	Date	
_____	_____	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐
Re-Test Certifying Examiner	Date	

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

HazMat Technician #3

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

RESPONSE OPTIONS AND SAFETY CONSIDERATIONS

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Response Planning
Personal Protective Equipment (PPE) Selection and Use
Skill #4

PERFORMANCE STANDARD **Section 604**

NFPA 1072, 2017 edition, 7.3.2, 7.3.2(B), 7.4.2, 7.4.2(B) **TECHNICIAN**

OBJECTIVE

7.3.2

Select the PPE ensemble required for a given response option at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, results of the incident analysis, response objectives and options for the incident, approved references, and policies and procedures, so that required PPE is identified for each response option.

7.3.2(B)

Selecting PPE ensembles for a specified response option based on all hazards identified and determining the effectiveness of protective clothing based in its uses and limitations.

7.4.2

Don, work in, and doff PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, results of the incident analysis, response objectives and options for the incident, and PPE ensembles as identified in the IAP, so that PPE is selected, inspected, donned, worked in, decontaminated, and doffed; safety procedures are followed; hazards are avoided or minimized; equipment is maintained and stored properly; and the use of PPE is reported and documented.

7.4.2(B)

Inspecting, donning, working in, going through technical decontamination while wearing PPE; and completing required reports and supporting documents for the use of PPE.

INSTRUCTIONS

You will be provided a scenario involving a hazardous material. You will then select the appropriate Chemical
Protective Clothing (CPC) using 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 then Inspect, don, work in, and go through technical decontamination while wearing PPE; and complete any AHJ required

reports and supporting documents for the use of PPE. 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 NOTES

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

PREPARATION & EQUIPMENT

- A list of Hazardous Materials/WMD Agents
- A list of CPC Material
- CPC Chemical compatibility charts
- CPC Selection Guide(s)
- Hazardous Materials reference texts
- CPC Worksheets

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Response Planning
Personal Protective Equipment (PPE) Selection and Use
Skill #4

Candidate:_____ Date:_____

Academy:_____ Test Site:_____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Skill #4	**S**	**U**	**S**	**U**
Select the PPE ensemble required for a given response option at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, results of the incident analysis, response objectives and options for the incident, approved references, and policies and procedures, so that required PPE is identified for each response option. (7.3.2) Selecting PPE ensembles for a specified response option based on all hazards identified and determining the effectiveness of protective clothing based in its uses and limitations. (7.3.2(B)) Don, work in, and doff PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, results of the incident analysis, response objectives and options for the incident, and PPE ensembles as identified in the IAP, so that PPE is selected, inspected, donned, worked in, decontaminated, and doffed; safety procedures are followed; hazards are avoided or minimized; equipment is maintained and stored properly; and the use of PPE is reported and documented. (7.4.2) Inspecting, donning, working in, going through technical decontamination while wearing PPE; and completing required reports and supporting documents for the use of PPE.				

(7.4.2(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Select approved PPE ensembles for a specified response option based on all hazards identified				
b) Determine the effectiveness of protective clothing based in its uses and limitations				
c) Inspect, don, work in and go through technical decontamination while wearing approved PPE				
d) Complete required reports and supporting documents for the use of PPE				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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 ☐ Fail ☐
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

Name:_____

Date:_____

Chemical Protective Clothing Selection Worksheet

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.	

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Action Plan Implementation
Performing Assigned IMS/ICS Duties and Terminating the Incident
Skill #5

PERFORMANCE STANDARD **Section 604**

NFPA 1072, 2017 edition, 7.4.1, 7.4.1(B), 7.6.1, 7.6.1(B) **TECHNICIAN**

OBJECTIVE
7.4.1
Perform assigned hazardous materials branch or group functions within the incident command system (ICS) at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis; policies and procedures, including an emergency response plan and standard operating procedures; the IAP; and approved resources, so that the assigned functions within the hazardous materials branch or group are completed.

7.4.1(B)
Performing the duties and responsibilities of an assigned function in the hazardous materials branch or a group organization; and communicating observations to hazardous materials branch director/group supervisor, ICS operations section chief, or IC.

7.6.1
Terminate a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, operational observations of response operations (incident information), and approved forms for documentation and reporting, so that assistance in scheduled incident debriefings and critiques is provided, and incident operations are reported and documented.

7.6.1(B)
Communicating operational observations (incident information) at debriefings and critiques; and completing, forwarding, and filing required reports, records, and supporting documentation.

INSTRUCTIONS
Based on the Hazardous Materials Branch function you are assigned to, you will be evaluated while performing those duties

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

Assign students to a HazMat Branch function and the examiner will be the incident commander

PREPARATION & EQUIPMENT

- HazMat reference materials
- Completed HazMat IAP including a Site Safety Plan
- Simulated hazardous materials/WMD incident or scenario involving a facility or transportation setting

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Action Plan Implementation
Performing Assigned IMS/ICS Duties and Terminating the Incident
Skill #5

Candidate:_____ Date:_____

Academy:_____ Test Site:_____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Skill #5	**S**	**U**	**S**	**U**
Perform assigned hazardous materials branch or group functions within the incident command system (ICS) at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis; policies and procedures, including an emergency response plan and standard operating procedures; the IAP; and approved resources, so that the assigned functions within the hazardous materials branch or group are completed. (7.4.1) Performing the duties and responsibilities of an assigned function in the hazardous materials branch or a group organization; and communicating observations to hazardous materials branch director/group supervisor, ICS operations section chief, or IC. (7.4.1(B)) Terminate a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, operational observations of response operations (incident information), and approved forms for documentation and reporting, so that assistance in scheduled incident debriefings and critiques is provided, and incident operations are reported and documented. (7.6.1) Communicating operational observations (incident information) at debriefings and critiques; and completing,				

forwarding, and filing required reports, records, and supporting documentation. (7.6.1(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Perform the duties and responsibilities of an assigned function in the hazardous materials branch or a group organization				
b) Communicate observations to the hazardous materials branch director/group supervisor, ICS operations section chief, or IC				
c) Communicate operational observations (incident information) at debriefings and critiques				
d) Complete, forward, and file required reports, records, and supporting documentation				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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 ☐ Fail ☐
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

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

1st Alarm	
Unit	
Engine	
Engine	
Ladder	
EMS	

2nd Alarm	

3rd Alarm	

Mutual Aid	
Dept	Resource

Scene Sketch

Side C

Side B

Side D

Side A

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

Incident Command Worksheet

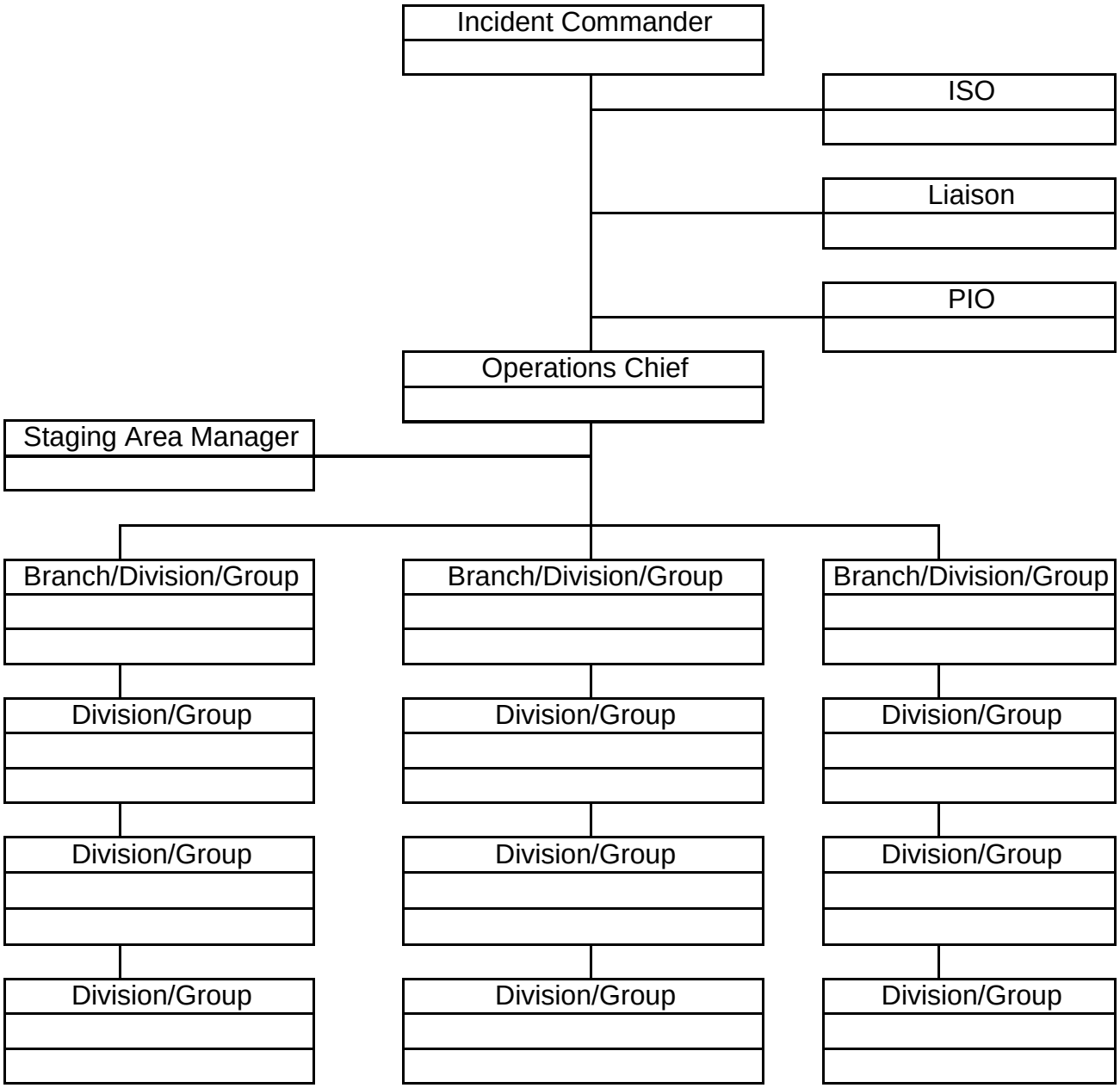
Summary of Resources							
	Resource Ordered	Resource ID	ETA	OS	# of Personnel	Location	Released
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

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		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
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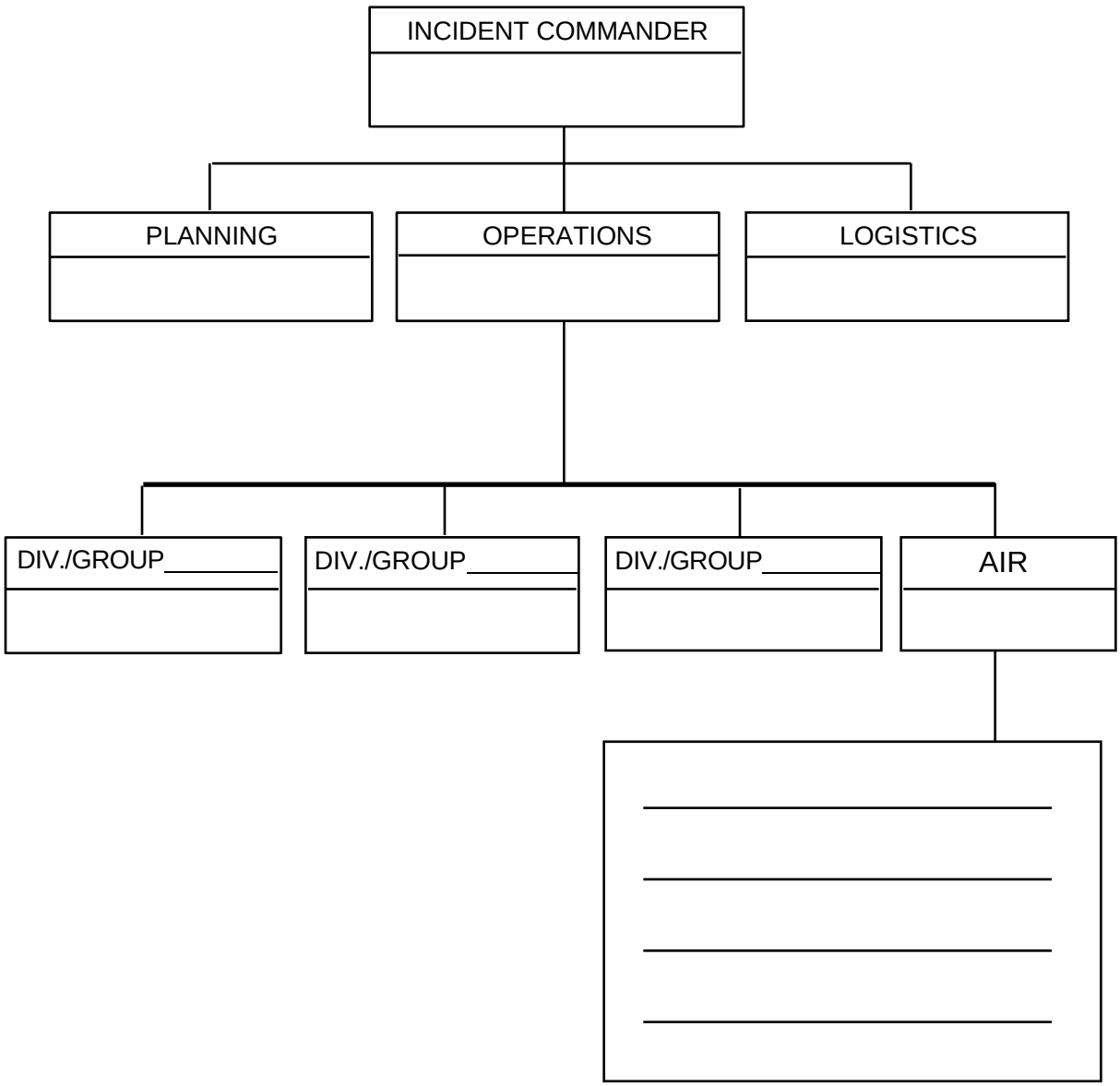
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		

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)	

6. SUMMARY OF CURRENT ACTIONS		
ICS 201 (12/93) **NFES 1325**	PAGE 2	

7. CURRENT ORGANIZATION



8. RESOURCES SUMMARY				
RESOURCES ORDERED	RESOURCES IDENTIFICATION	ETA	ON SCENE √	LOCATION/ASSIGNMENT
ICS 201 (12/93) **NFES 1325**	PAGE 4			

INCIDENT OBJECTIVES

1. INCIDENT NAME	2. DATE PREPARED	3.TIME PREPARED

4. OPERATIONAL PERIOD (DATE/TIME)

5. GENERAL CONTROL OBJECTIVES FOR THE INCIDENT (INCLUDE ALTERNATIVES)

6. WEATHER FORECAST FOR OPERATIONAL PERIOD

7. GENERAL SAFETY MESSAGE

8. ATTACHMENTS (IF ATTACHED)

0 ORGANIZATION LIST {ICS 203)
0 ASSIGNMENT LIST (ICS 204)
0 COMMUNICATIONS PLAN {ICS 205)
0 MEDICAL PLAN {ICS 206)
0 INCIDENT MAP
0 TRAFFIC PLAN

9. PREPARED BY (PLANNING SECTION CHIEF)	10. APPROVED BY (INCIDENT COMMANDER)

ORGANIZATION ASSIGNMENT LIST

1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED

POSITION	NAME
4. OPERATIONAL PERIOD (DATE/TIME)	

5. INCIDENT COMMANDER AND STAFF	
INCIDENT COMMANDER	
DEPUTY	
SAFTEY OFFICER	
INFORMATION OFFICER	
LIAISON OFFICER	

6. AGENCY REPRESENTATIVES	
AGENCY	NAME

7. PLANNING SECTION	
CHIEF	
DEPUTY	
RESOURCES UNIT	
SITUATION UNIT	
DOCUMENTATION UNIT	
DEMOBILIZATION UNIT	
TECHNICAL SPECIALISTS	

8. LOGISTICS SECTION	
CHIEF	
DEPUTY	
a. SUPPORT BRANCH	
DIRECTOR	
SUPPLY UNIT	
FACILITIES UNIT	
GROUND SUPPORT UNIT	
b. SERVICE BRANCH	
DIRECTOR	
COMMUNICATIONS UNIT	
MEDICAL UNIT	
FOOD UNIT	

9. OPERATIONS SECTION		
CHIEF		
DEPUTY		
a. BRANCH I- DIVISION/GROUPS		
BRANCH DIRECTOR		
DEPUTY		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
b. BRANCH II- DIVISION/GROUPS		
BRANCH DIRECTOR		
DEPUTY		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
c. BRANCH III- DIVISION/GROUPS		
BRANCH DIRECTOR		
DEPUTY		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
d. AIR OPERATIONS BRANCH		
AIR OPERATIONS BR. DIR.		
AIR TACTICAL GROUP SUP		
AIR SUPPORT GROUP SUP		
HELICOPTER COORDINATOR		
AIR TANKER/FIXED WING CRD.		

10. FINANCE/ADMINISTRATION SECTION	
CHIEF	
DEPUTY	
TIME UNIT	
PROCUREMENT UNIT	
COMPENSATION/CLAIMS UNIT	
COST UNIT	

PREPARED BY (RESOURCES UNIT)

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.
,, LOCAL COMMAND REPEAT				LOCAL SUPPORT REPEAT			
DIV/GROUP TACTICAL				GROUND TOAIR			

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	GANO		YES	NO	YES	NO

8. MEDICAL EMERGENCY PROCEDURES

206 res 8/78	9. PREPARED BY (MEDICAL UNIT LEADER)	110. REVIEWED BY (SAFETY OFFICER)

NFES 1331

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

Performing Control Functions
Product Control and Controlling Container Leaks
Skill #6

PERFORMANCE STANDARD **Section 604**

NFPA 1072, 2017 edition, 7.4.3.1, 7.4.3.1(B), 7.4.3.2, 7.4.3.2(B) **TECHNICIAN**

OBJECTIVE

7.4.3.1

Perform product control techniques at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product, an assignment in an IAP, results of the incident analysis, policies and procedures for product control, response objectives and options for the incident, and approved tools, equipment, control agents, and PPE, so that an approved product control technique is selected and implemented; the product is controlled; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; personnel, victims, tools, and equipment used are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented.

7.4.3.1(B)

Selecting and using PPE, selecting, and using approved control agents and equipment on a release involving hazardous materials/WMD, using container control valves and remote emergency shutoff devices, performing product and control techniques, inspecting, and maintaining tools and equipment; and completing required and supporting documentation for product control operations.

7.4.3.2

Control leaks from containers and their closures at a hazardous materials/WMD incident, given three scenarios, including (1) a leak from a bulk or nonbulk pressure container or its closures, (2) a leak from a nonbulk liquid container or its closures, and (3) a leak from a bulk liquid container or its closures; an assignment in an IAP; results of the incident analysis; policies and procedures for controlling leaks from containers and/or their closures; and approved tools, equipment, and PPE, so that an approved product control technique is selected and used; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; hazard monitoring is completed; leaks are controlled (confined or contained); emergency responders, tools, and equipment used are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented.

7.2.3.2(B)
Selecting and using PPE, selecting, and using approved control agents and equipment; controlling leaks on containers and their closures (patching, plugging, sealing closures, remote valve shutoff, closing valves, repositioning container; replacing missing plugs, and tightening loose fittings); decontaminating tools and equipment; inspecting and maintaining tools and equipment; and requirements for reporting and documenting product control operations.

INSTRUCTIONS

Working as a team, you will perform product control techniques at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; given three scenarios, including:

- Scenario A - a leak from a bulk or non-bulk pressure container or its closures
- Scenario B - a leak from a non-bulk liquid container or its closures
- Scenario C - a leak from a bulk liquid container or its closures

You will select and use the appropriate PPE, select, and use approved control agents and equipment, protect exposures and personnel, use container control valves and remote emergency shutoff devices, select the appropriate tools and equipment from the equipment available, inspect its serviceability, perform product control, contain the leak, and complete report and supporting documentation for product control operations.

After donning approved PPE including appropriate respiratory equipment, you will begin on my instruction to start.

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?

EXAMINER'S NOTE

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

Provide the candidate with an incident scenario. This may be in the form of an actual staged scenario on the training field, a PowerPoint or multimedia presentation/video, or a photograph(s) with narratives.

Allow the candidate to analyze the scenario, they may use any applicable reference support material provided. The use of WISER or CAMEO on their personal electronic device (cell phone or tablet) or provided electronic equipment is also acceptable.

The candidate may provide a written or verbal response, per the direction of th field examiner.

PREPARATION & EQUIPMENT

- A written or audio/visual representation of a Hazardous Materials/WMD incident scenario(s) – i.e., PowerPoint Presentation or a multimedia presentation/video, or photograph(s) with narratives.
- Bulk or Non-bulk pressure container, bulk liquid container, non-bulk liquid container
- Bung wrench
- Dome clamps
- Plugging and patching kit
- Over pack drum
- Approved PPE including appropriate respiratory protection
- Chlorine A Kit
- Chlorine B Kit (Ammonia B Kit or SO2 Kit is also acceptable)
- Chlorine C Kit, Midland Emergency Kit, or Kelso Kit
- Other containment devices, per AHJ

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Performing Control Functions
Product Control and Controlling Container Leaks
Skill #6

Candidate:_____ Date:_____

Academy:_____ Test Site:_____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Skill #6	**S**	**U**	**S**	**U**
Perform product control techniques at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product, an assignment in an IAP, results of the incident analysis, policies and procedures for product control, response objectives and options for the incident, and approved tools, equipment, control agents, and PPE, so that an approved product control technique is selected and implemented; the product is controlled; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; personnel, victims, tools, and equipment used are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented. (7.4.3.1) Selecting and using PPE, selecting, and using approved control agents and equipment on a release involving hazardous materials/WMD, using container control valves and remote emergency shutoff devices, performing product and control techniques, inspecting, and maintaining tools and equipment; and completing required and supporting documentation for product control operations. (7.4.3.1(B)) Control leaks from containers and their closures at a hazardous materials/WMD incident, given three scenarios, including (1) a leak from a bulk or nonbulk pressure container or its closures, (2) a leak from a nonbulk liquid container or its closures, and (3) a leak from a bulk liquid container or its closures; an assignment in an IAP; results of				

the incident analysis; policies and procedures for controlling leaks from containers and/or their closures; and approved tools, equipment, and PPE, so that an approved product control technique is selected and used; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; hazard monitoring is completed; leaks are controlled (confined or contained); emergency responders, tools, and equipment used are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented. (7.4.3.2) Selecting and using PPE, selecting, and using approved control agents and equipment; controlling leaks on containers and their closures (patching, plugging, sealing closures, remote valve shutoff, closing valves, repositioning container; replacing missing plugs, and tightening loose fittings); decontaminating tools and equipment; inspecting and maintaining tools and equipment; and requirements for reporting and documenting product control operations. (7.2.3.2(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Select and use approved PPE, control agents and equipment on a release involving hazardous materials/WMD				
b) Inspect tools and equipment				
c) Use container control valves and remote emergency shutoff devices				
d) Perform product and control techniques				
e) Control leaks on containers and their closures, using the following techniques: • Patching • Plugging • Sealing closures • Remote valve shutoff • Closing valves • Repositioning container • Replacing missing plugs				
f) Tightening loose fittings				
g) Decontaminate tools and equipment				

h) Inspect and maintain tools and equipment				
i) Complete and demonstrate knowledge of requirements for reporting and documenting product control operations				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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 ☐ Fail ☐
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Performing Control Functions
Overpacking Nonbulk and Radioactive Materials
Skill #7

PERFORMANCE STANDARD **Section 604**

NFPA 1072, 2017 edition, 7.4.3.3, 7.4.3.3(B) **TECHNICIAN**

OBJECTIVE
7.4.3.3
Overpack damaged or leaking nonbulk and radioactive materials containers at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis; a loaded damaged or leaking container; a suitable overpack container; policies and procedures; and approved tools, equipment, and PPE, so that an approved overpack technique is selected; the damaged or leaking container is placed into a suitable overpack and the overpack is closed, marked, and labeled; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; emergency responders, tools, and equipment are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented.

7.4.3.3(B)
Selecting and using PPE; placing a damaged or leaking nonbulk materials container into the overpack container; placing a damaged or leaking radioactive materials container into an overpack container; following safety procedures and minimizing and avoiding hazards; decontaminating tools and equipment; inspecting and maintaining tools and equipment; and completing requirements for reporting and documenting product control operations.

INSTRUCTIONS
Presented with a leaking container:
- Scenario A – A damaged or leaking 55-gallon drum
- Scenario B – A damaged or leaking radioactive materials container

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

EXAMINER'S NOTE

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

PREPARATION & EQUIPMENT

- A container with either bung leak, chime leak, forklift puncture, or ail puncture.
- Over pack drum
- CPC with respiratory protection
- 55-gallon drum
- Radiological detection equipment

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Performing Control Functions

Overpacking Nonbulk and Radioactive Materials

Skill #7

Candidate:_____ Date:_____

Academy: _____ Test Site:_____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Skill #7	**S**	**U**	**S**	**U**
Overpack damaged or leaking nonbulk and radioactive materials containers at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis; a loaded damaged or leaking container; a suitable overpack container; policies and procedures; and approved tools, equipment, and PPE, so that an approved overpack technique is selected; the damaged or leaking container is placed into a suitable overpack and the overpack is closed, marked, and labeled; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; emergency responders, tools, and equipment are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented. (7.4.3.3) Selecting and using PPE; placing a damaged or leaking nonbulk materials container into the overpack container; placing a damaged or leaking radioactive materials container into an overpack container; following safety procedures and minimizing and avoiding hazards; decontaminating tools and equipment; inspecting and maintaining tools and equipment; and completing requirements for reporting and documenting product control operations. (7.4.3.3(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Select and use approved PPE				
b) **Scenario A** - Place a damaged or leaking nonbulk materials container into the overpack container **Scenario B** - Scenario Place a damaged or leaking				

radioactive materials container into an overpack container				
c) Follow safety procedures and minimizing and avoiding hazards				
d) Decontaminate tools and equipment				
e) Complete requirements for reporting and documenting product control operations				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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.

_____ Certifying Examiner	_____ Date	Overall Skill Sheet Score Pass ☐ Fail ☐
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Performing Control Functions
Liquid Product Transfer
Skill #8

PERFORMANCE STANDARD **Section 604**

NFPA 1072, 2017 edition, 7.4.3.4, 7.4.3.4(B) **TECHNICIAN**

OBJECTIVE
7.4.3.4
Transfer liquids from leaking nonpressure containers at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis; a leaking nonpressure container and a recovery container; policies and procedures for transferring liquids from leaking nonpressure containers; and approved tools, equipment, and PPE, so that an approved product transfer method is selected and used; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; hazard monitoring is completed; the containers are bonded and grounded; product is transferred to the recovery container; emergency responders, tools, and equipment used are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented.

7.4.3.4(B)
Selecting and using PPE; identifying a compatible recovery container and transfer equipment; monitoring for hazards; grounding and bonding containers; transferring liquid product from a leaking container to a recovery container; suppressing vapors; decontaminating tools and equipment; inspecting and maintaining tools and equipment; and completing reports and supporting documentation for product control operations.

INSTRUCTIONS
The technician**,** operating as a member of a team, will transfer liquids from leaking nonpressure containers at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis; a leaking nonpressure container and a recovery container; policies and procedures for transferring liquids from leaking nonpressure containers; and approved tools, equipment, and PPE.

You will select and use appropriate PPE, identify a compatible recovery container and transfer equipment, monitor for hazards, transfer liquid product from a leaking container to a recovery container, suppress vapors, inspect and maintain tools and equipment, decontaminate responders, tools, and equipment, and complete report and supporting documentation for liquid 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 all the identified steps. Do you understand these instructions?

EXAMINER'S NOTE

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

Provide the team with an incident scenario. This may be in the form of an actual staged scenario on the training field, a PowerPoint or multimedia presentation/video, or a photograph(s) with narratives.

Allow the team to analyze the scenario, they may use any applicable reference support material provided. The use of WISER or CAMEO on their personal electronic device (cell phone or tablet) or provided electronic equipment is also acceptable.

The team may provide a written or verbal response, per the direction of the field examiner.

PREPARATION & EQUIPMENT

- A written or audio/visual representation of a Hazardous Materials/WMD incident scenario(s) – i.e., PowerPoint Presentation or a multimedia presentation/video, or photograph(s) with narratives.
- Nonpressure containers
- Grounding and bonding equipment
- Air Monitoring equipment
- Vapor Suppressing/firefighting equipment (hose, nozzle, foam, etc.)
- Product transfer equipment

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Performing Control Functions
Liquid Product Transfer
Skill #8

Candidate:_____ Date:_____

Academy: _____ Test Site:_____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Skill #8	**S**	**U**	**S**	**U**
Transfer liquids from leaking nonpressure containers at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis; a leaking nonpressure container and a recovery container; policies and procedures for transferring liquids from leaking nonpressure containers; and approved tools, equipment, and PPE, so that an approved product transfer method is selected and used; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; hazard monitoring is completed; the containers are bonded and grounded; product is transferred to the recovery container; emergency responders, tools, and equipment used are decontaminated; tools and equipment are inspected and maintained; and product control operations are reported and documented. (7.4.3.4) Selecting and using PPE; identifying a compatible recovery container and transfer equipment; monitoring for hazards; grounding and bonding containers; transferring liquid product from a leaking container to a recovery container; suppressing vapors; and completing reports and supporting documentation for product control operations. (7.4.3.4(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Select and use approved PPE				
b) Identify a compatible recovery container and transfer equipment				
c) Monitor for hazards				

d) Ground and bond containers				
e) Transfer liquid product from a leaking container to a recovery container				
f) Suppress vapors				
g) Complete reports and supporting documentation for product control operations				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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.

_____ Certifying Examiner	_____ Date	Overall Skill Sheet Score Pass ☐ Fail ☐
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Decontamination
Mass Decontamination
Skill #9

PERFORMANCE STANDARD **Section 604**

NFPA 1072, 2017 edition, 7.4.4.1, 7.4.4.1(B) **TECHNICIAN**

OBJECTIVE
7.4.4.1
Perform mass decontamination for ambulatory and nonambulatory victims at a hazardous materials/WMD incident, given a hazardous materials/WMD incident requiring mass decontamination; an assignment in an IAP; results of the incident analysis; policies and procedures; and approved PPE, tools, and equipment, so that PPE is selected and used; a mass decontamination procedure is selected, set up, implemented, evaluated, and terminated; victims are decontaminated; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; personnel, tools, and equipment are decontaminated; and mass decontamination operations are reported and documented.

7.4.4.1(B)
Selecting and using suitable PPE, selecting a mass decontamination procedure to minimize the hazard, setting up and implementing mass decontamination operations for ambulatory and non-ambulatory victims, evaluating the effectiveness of the mass decontamination process, and completing reporting and documentation requirements.

INSTRUCTIONS
The technician, operating as a member of a team at a simulated hazardous materials incident, shall demonstrate how to perform technical and mass decontamination (decon) operations. You will be provided with the necessary equipment and water supply to set up and establish a mass decon corridor. After establishing a mass decon 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?

EXAMINER'S NOTE
The examiner will evaluate the appropriateness and effectiveness of the decontamination methods employed by the team. The hazardous materials technician trainees will not be allowed to review the performance steps at the time of testing.

PREPARATION & EQUIPMENT
- Emergency Response and Hazardous Materials Response Equipment
- Mass Decontamination Equipment
- Complete Level B CPC ensembles w/SCBAs
- "Contaminated people" that have been "contaminated"
- A dummy/manikin or a non-responder/non-ambulatory victim to be decontaminated

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Decontamination
Mass Decontamination
Skill #9

Candidate:_____ Date:_____

Academy: _____ Test Site:_____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Skill #9	**S**	**U**	**S**	**U**
Perform mass decontamination for ambulatory and nonambulatory victims at a hazardous materials/WMD incident, given a hazardous materials/WMD incident requiring mass decontamination; an assignment in an IAP; results of the incident analysis; policies and procedures; and approved PPE, tools, and equipment, so that PPE is selected and used; a mass decontamination procedure is selected, set up, implemented, evaluated, and terminated; victims are decontaminated; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; personnel, tools, and equipment are decontaminated; and mass decontamination operations are reported and documented. (7.4.4.1) Selecting and using suitable PPE, selecting a mass decontamination procedure to minimize the hazard, setting up and implementing mass decontamination operations for ambulatory and non-ambulatory victims, evaluating the effectiveness of the mass decontamination process, and completing reporting and documentation requirements. (7.4.4.1(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Select and use suitable PPE				
b) Select a mass decontamination procedure to minimize the hazard				
c) Set up and implement mass decontamination operations for ambulatory and non-ambulatory victims				
d) Evaluate the effectiveness of the mass decontamination process				

e) Complete reporting and documentation requirements				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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.

_____ Certifying Examiner	_____ Date	Overall Skill Sheet Score Pass ☐ Fail ☐
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Decontamination
Technical Decontamination
Skill #10

PERFORMANCE STANDARD **Section 604**

NFPA 1072, 2017 edition, 7.4.4.2, 7.4.4.2(B) **TECHNICIAN**

OBJECTIVE
7.4.4.2
Establish and implement technical decontamination in support of entry operations and for ambulatory and nonambulatory victims at a hazardous materials/WMD incident, given a hazardous materials/WMD incident requiring technical decontamination; an assignment in an IAP; results of the incident analysis; policies and procedures; and approved PPE, tools, and equipment, so that approved PPE is selected and used; a technical decontamination procedure is selected, set up, implemented, evaluated, and terminated; victims are decontaminated; safety procedures are followed; hazards are avoided or minimized; if contaminated, personnel, tools, and equipment are decontaminated; and all reports and documentation of technical decontamination operations are completed.

7.4.4.2(B)
Selecting and using PPE, selecting a technical decontamination procedure to minimize the hazard, setting up and implementing technical decontamination operations, evaluating the effectiveness of the technical decontamination procedure, and completing required reports and supporting documentation for technical decontamination operations.

INSTRUCTIONS
The technician, operating as a member of a team at a simulated hazardous materials incident, shall demonstrate how to perform technical decontamination operations. You will be provided with the necessary equipment and water supply to set up and establish a technical contamination reduction corridor and emergency decon area. 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.

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?

EXAMINER'S NOTE

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

The examiner will evaluate the appropriateness and effectiveness of the decontamination methods employed by the team.

PREPARATION & EQUIPMENT

- Emergency Response and Hazardous Materials Response Equipment
- Technical Decontamination Equipment
- Complete Level B CPC ensembles w/SCBAs
- One technician in Level A CPC that has been "contaminated"
- A dummy/manikin or a non-responder/non-ambulatory victim to be decontaminated

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS TECHNICIAN
Performance Standards

Decontamination
Technical Decontamination
Skill #10

Candidate:_____ Date:_____

Academy: _____ Test Site:_____

HAZARDOUS MATERIALS TECHNICIAN	TEST		RETEST	
Skill #10	**S**	**U**	**S**	**U**
Establish and implement technical decontamination in support of entry operations and for ambulatory and nonambulatory victims at a hazardous materials/WMD incident, given a hazardous materials/WMD incident requiring technical decontamination; an assignment in an IAP; results of the incident analysis; policies and procedures; and approved PPE, tools, and equipment, so that approved PPE is selected and used; a technical decontamination procedure is selected, set up, implemented, evaluated, and terminated; victims are decontaminated; safety procedures are followed; hazards are avoided or minimized; if contaminated, personnel, tools, and equipment are decontaminated; and all reports and documentation of technical decontamination operations are completed. (7.4.4.2) Selecting and using PPE, selecting a technical decontamination procedure to minimize the hazard, setting up and implementing technical decontamination operations, evaluating the effectiveness of the technical decontamination procedure, and completing required reports and supporting documentation for technical decontamination operations. (7.4.4.2(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Select and use approved PPE				
b) Select a technical decontamination procedure to minimize the hazard				
c) Set up and implement technical decontamination				

operations				
d) Evaluate the effectiveness of the technical decontamination procedure				
e) Complete required reports and supporting documentation for technical decontamination operations				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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.

_____ Certifying Examiner	_____ Date	Overall Skill Sheet Score Pass ☐ Fail ☐
_____ Re-Test Certifying Examiner	_____ Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
Performance Standards

HAZARDOUS MATERIALS INCIDENT COMMANDER
Analyze the Incident, Plan Response, Implement the Incident Action Plan (IAP), Evaluate Progress and Adjust IAP, and Termination of Incident

Skill #1

PERFORMANCE STANDARD **Section 605**

NFPA 1072, 2017 edition, 8.2.1, 8.2.1(B), 8.3.1, 8.3.1(B), 8.4.1, 8.4.1(B), 8.5.1, 8.5.1(B), 8.6.1, 8.6.1(B)

OBJECTIVE

8.2.1

Analyze a hazardous materials/weapons of mass destruction (WMD) incident, given a hazardous material/WMD incident; incident information; policies and procedures; available resources; approved references; and access to a hazardous materials technician, an allied professional, an emergency plan, or standard operating procedures, so that the hazards are assessed and risks are evaluated.

8.2.1(B)

Assessing hazards and evaluating risks; written and verbal communication.

8.3.1

Plan the response to a hazardous materials/WMD incident, given a hazardous materials/WMD incident, the results of the incident analysis, and available resources, so that the response objectives are identified, potential response options are identified, level of personal protective equipment (PPE) is approved, decontamination process is approved, response options are selected based on available resources, and an IAP is developed.

8.3.1(B)

Approving the personal protective equipment for response options, developing a plan of action, and ability to use verbal and written communication.

8.4.1

Implement the planned response in a hazardous materials/WMD incident, given a hazardous materials/WMD incident and resources and equipment available, so that IMS/ICS is implemented, resources are directed, a focal point for information transfer is established, and actions are taken to meet the response objectives of the IAP.

8.4.1(B)

Implementing IMS/ICS including unified command as necessary, assigning, and directing resources, and establishing information transfer focal point.

8.5.1
Evaluate the progress and adjust the IAP as needed at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, actions taken, and changing incident conditions, so that actual behavior of material and container is compared to that predicted, effectiveness of action options and actions is determined, and modifications to the IAP are made as needed until the scene is determined to be stabilized and hazards are controlled.

8.5.1(B)
Comparing predicted behavior of the material and its container to the actual behavior, determining effectiveness of action options and actions, and modifying the IAP when needed.

8.6.1
Terminate response operations at a hazardous materials/WMD incident, given a hazardous materials/WMD incident that has been determined to be stabilized with hazards controlled, operational observations, and approved forms for documentation and reporting, so that command is transferred, debriefings are held, post-incident analysis is completed, a critique is conducted, and overall incident response operations are reported and documented.

8.6.1(B)
Transferring command; participating in a debriefing, post-incident analysis, and critiques; and completing required reports and supporting documentation for overall incident response operations.

INSTRUCTIONS

Given a simulated hazardous materials/WMD incident or scenario involving a facility or transportation setting, the incident commander shall:

- Analyze the Incident
- Plan Response

- Implement an Incident Action Plan
    - assign resources to meet the strategic goals of the incident action plan (IAP).
    - specify procedures for the notification and utilization of nonlocal resources (e.g., private, state, and/or federal government personnel)
- Evaluate Progress and Adjust IAP

- redirect resources and transfer command as necessary to support the completion of tactical objectives as identified in the incident action plan.
- establish priorities for the assignment and redistribution of all resources dedicated to the incident.

- Termination of the Plan
  - 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.
    - 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.

All actions shall be consistent with the local emergency response plan and the organization's standard operating procedures.

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

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

PREPARATION & EQUIPMENT
- ICS forms or ICS worksheet.
- Simulated hazardous materials/WMD incident or scenario involving a facility or
- transportation setting.
- Site safety plan
- Other incident documents

TEXAS COMMISSION ON FIRE PROTECTION
HAZARDOUS MATERIALS INCIDENT COMMANDER
Performance Standards

HAZARDOUS MATERIALS INCIDENT COMMANDER
Analyze the Incident, Plan Response, Implement the Incident Action Plan (IAP), Evaluate Progress and Adjust IAP, and Termination of Incident

Skill #1

Candidate:_____ Date:_____

Academy:_____ Test Site:_____

HAZARDOUS MATERIALS INCIDENT COMMANDER	TEST		RETEST	
SKILL #1	**S**	**U**	**S**	**U**
Analyze a hazardous materials/weapons of mass destruction (WMD) incident, given a hazardous material/WMD incident; incident information; policies and procedures; available resources; approved references; and access to a hazardous materials technician, an allied professional, an emergency plan, or standard operating procedures, so that the hazards are assessed and risks are evaluated. (8.2.1) Assessing hazards and evaluating risks; written and verbal communication. (8.2.1(B)) Plan the response to a hazardous materials/WMD incident, given a hazardous materials/WMD incident, the results of the incident analysis, and available resources, so that the response objectives are identified, potential response options are identified, level of personal protective equipment (PPE) is approved, decontamination process is approved, response options are selected based on available resources, and an IAP is developed. (8.3.1) Approving the personal protective equipment (PPE) for response options, developing a plan of action, and ability to use verbal and written communication. (8.3.1(B)) Implement the planned response in a hazardous materials/WMD incident, given a hazardous materials/WMD				

incident and resources and equipment available, so that IMS/ICS is implemented, resources are directed, a focal point for information transfer is established, and actions are taken to meet the response objectives of the IAP. (8.4.1) Implementing IMS/ICS including unified command as necessary, assigning and directing resources, and establishing information transfer focal point. (8.4.1(B)) Evaluate the progress and adjust the IAP as needed at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, actions taken, and changing incident conditions, so that actual behavior of material and container is compared to that predicted, effectiveness of action options and actions is determined, and modifications to the IAP are made as needed until the scene is determined to be stabilized and hazards are controlled. (8.5.1) Comparing predicted behavior of the material and its container to the actual behavior, determining effectiveness of action options and actions, and modifying the IAP when needed. (8.5.1(B)) Terminate response operations at a hazardous materials/WMD incident, given a hazardous materials/WMD incident that has been determined to be stabilized with hazards controlled, operational observations, and approved forms for documentation and reporting, so that command is transferred, debriefings are held, post-incident analysis is completed, a critique is conducted, and overall incident response operations are reported and documented. (8.6.1) Transferring command; participating in a debriefing, post-incident analysis, and critiques; and completing required reports and supporting documentation for overall incident response operations.				

(8.6.1(B))				
The candidate shall:	**S**	**U**	**S**	**U**
a) Analyze a hazardous materials/weapons of mass destruction (WMD) incident				
b) Assess hazards				
c) Evaluate risks				
d) Demonstrate satisfactory written and verbal communication skills				
e) Approve the personal protective equipment (PPE) for response options				
f) Develop a plan of action				
g) Demonstrate satisfactory verbal and written communication skills				
h) Implement IMS/ICS including unified command as necessary				
i) Assign resources and direct resources				
j) Establish an information transfer focal point				
k) Compare predicted behavior of the material and its container to actual behavior				
l) Determine effectiveness of action options and actions				
m) Modify IAP when needed				
n) Transfer command				
o) Conduct a: • Debriefing • Post-incident analysis • Critiques				
p) Complete required reports and supporting				

S = Satisfactorily completed/performed
U = Unsatisfactorily performed/failed to meet objective or grading step

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.

Certifying Examiner	Date	Overall Skill Sheet Score Pass ☐ Fail ☐
Re-Test Certifying Examiner	Date	Overall Skill Sheet Re-Test Score Pass ☐ Fail ☐

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

1st Alarm	
Unit	
Engine	
Engine	
Ladder	
EMS	

2nd Alarm	

3rd Alarm	

Mutual Aid	
Dept	Resource

Scene Sketch

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							
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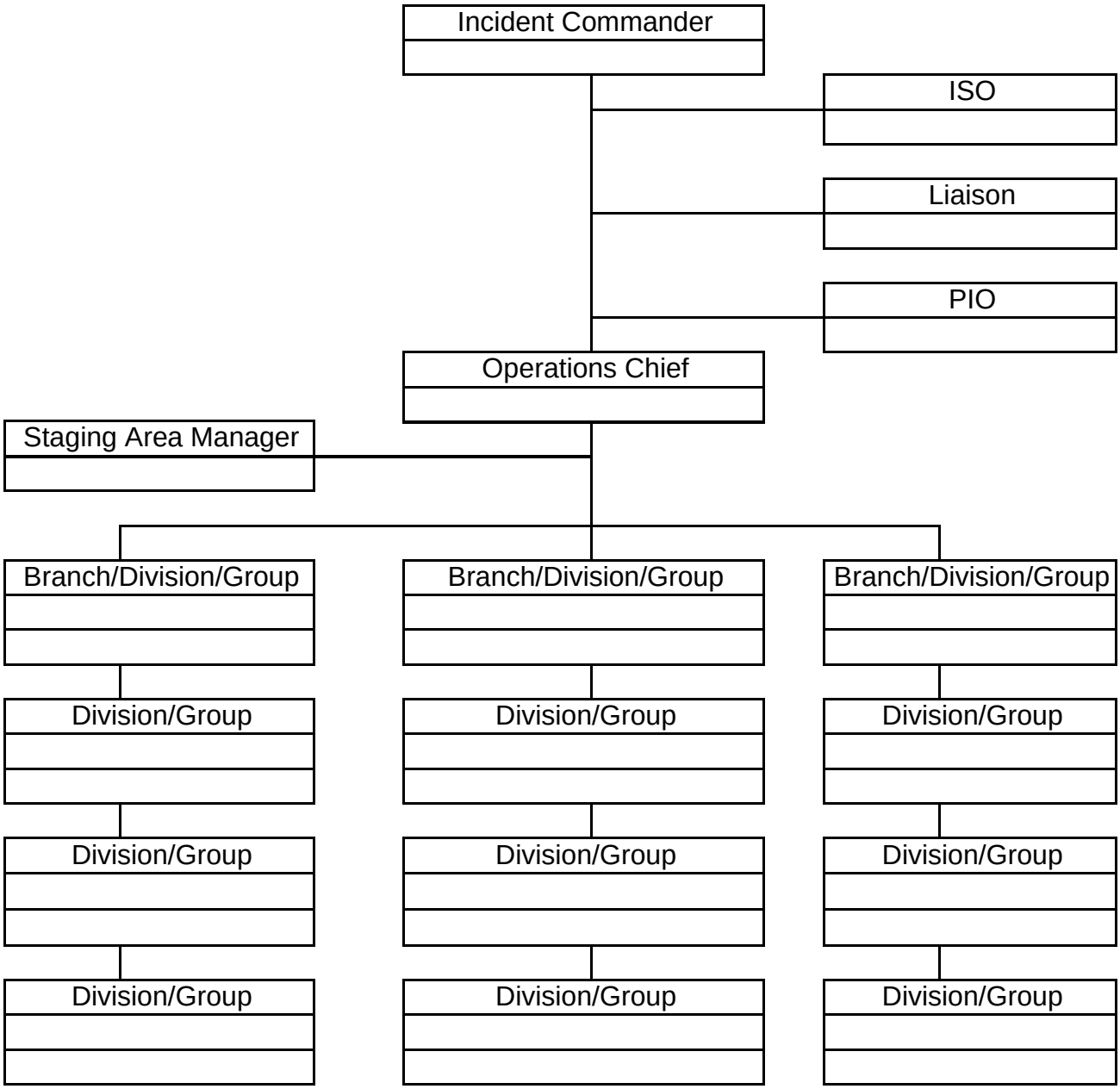
Incident Command Worksheet

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		
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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)	

6. SUMMARY OF CURRENT ACTIONS		
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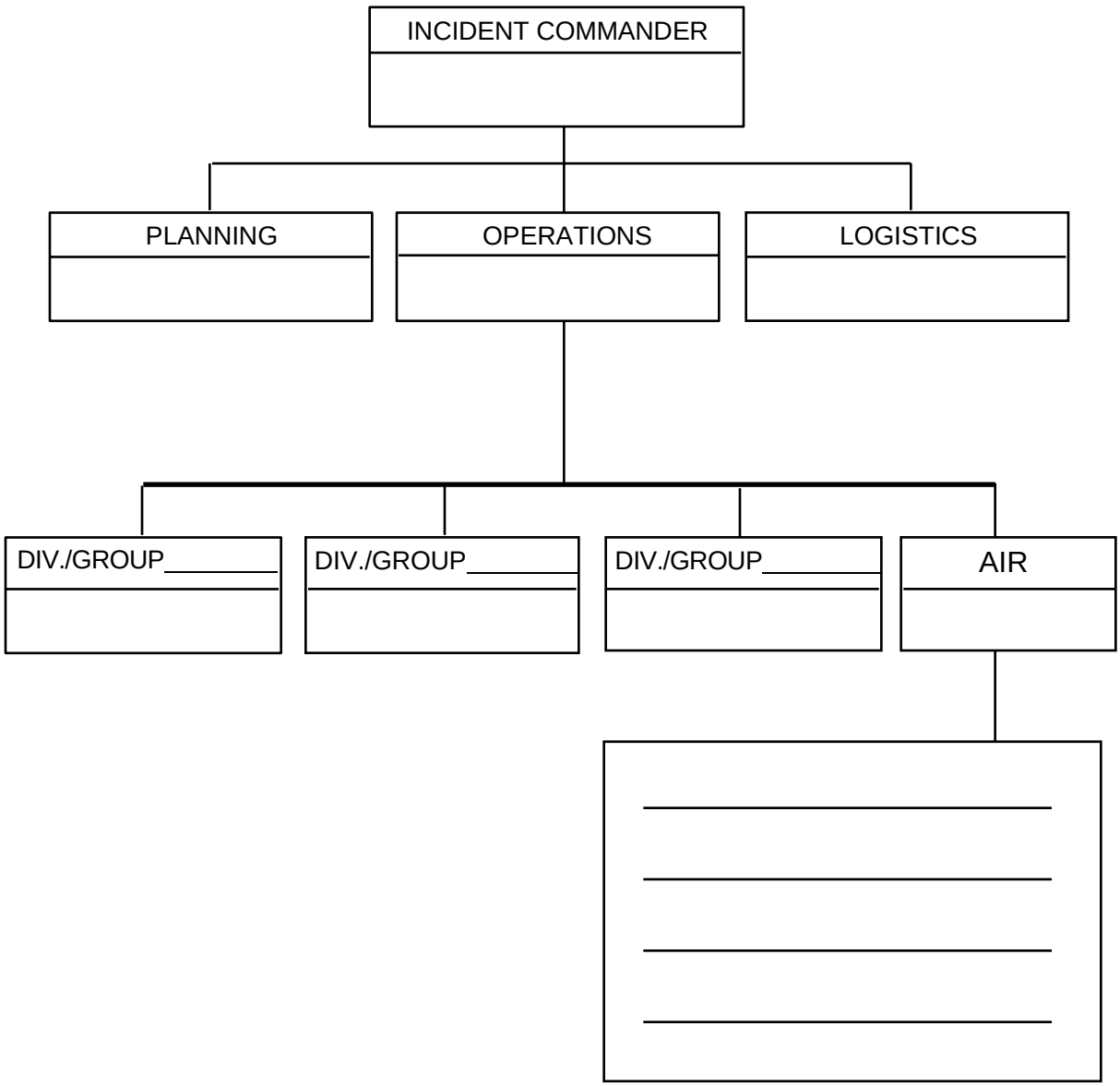
7. CURRENT ORGANIZATION



8. RESOURCES SUMMARY				
RESOURCES ORDERED	RESOURCES IDENTIFICATION	ETA	ON SCENE √	LOCATION/ASSIGNMENT
ICS 201 (12/93) **NFES 1325**	PAGE 4			

INCIDENT OBJECTIVES

1.INCIDENT NAME	2. DATE PREPARED	3.TIME PREPARED

4. OPERATIONAL PERIOD (DATE/TIME)

5. GENERAL CONTROL OBJECTIVES FOR THE INCIDENT (INCLUDE ALTERNATIVES)

6. WEATHER FORECAST FOR OPERATIONAL PERIOD

7. GENERAL SAFETY MESSAGE

8. ATTACHMENTS(IF ATTACHED)

0 ORGANIZATION LIST {ICS 203)
0 ASSIGNMENT LIST (ICS 204)
0 COMMUNICATIONS PLAN {ICS 205)
0 MEDICAL PLAN {ICS 206)
0 INCIDENT MAP
0 TRAFFIC PLAN

9. PREPARED BY (PLANNING SECTION CHIEF)	10. APPROVED BY (INCIDENT COMMANDER)

ORGANIZATION ASSIGNMENT LIST

1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED

POSITION	NAME
4. OPERATIONAL PERIOD (DATE/TIME)	

5. INCIDENT COMMANDER AND STAFF	
INCIDENT COMMANDER	
DEPUTY	
SAFTEY OFFICER	
INFORMATION OFFICER	
LIAISON OFFICER	

6. AGENCY REPRESENTATIVES	
AGENCY	NAME

7. PLANNING SECTION	
CHIEF	
DEPUTY	
RESOURCES UNIT	
SITUATION UNIT	
DOCUMENTATION UNIT	
DEMOBILIZATION UNIT	
TECHNICAL SPECIALISTS	

8. LOGISTICS SECTION	
CHIEF	
DEPUTY	
a. SUPPORT BRANCH	
DIRECTOR	
SUPPLY UNIT	
FACILITIES UNIT	
GROUND SUPPORT UNIT	
b. SERVICE BRANCH	
DIRECTOR	
COMMUNICATIONS UNIT	
MEDICAL UNIT	
FOOD UNIT	

9. OPERATIONS SECTION		
CHIEF		
DEPUTY		
a. BRANCH I- DIVISION/GROUPS		
BRANCH DIRECTOR		
DEPUTY		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
b. BRANCH II- DIVISION/GROUPS		
BRANCH DIRECTOR		
DEPUTY		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
c. BRANCH III- DIVISION/GROUPS		
BRANCH DIRECTOR		
DEPUTY		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
DIVISION/GROUP		
d. AIR OPERATIONS BRANCH		
AIR OPERATIONS BR. DIR.		
AIR TACTICAL GROUP SUP		
AIR SUPPORT GROUP SUP		
HELICOPTER COORDINATOR		
AIR TANKER/FIXED WING CRD.		

10. FINANCE/ADMINISTRATION SECTION	
CHIEF	
DEPUTY	
TIME UNIT	
PROCUREMENT UNIT	
COMPENSATION/CLAIMS UNIT	
COST UNIT	

PREPARED BY (RESOURCES UNIT)

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.
,, LOCAL COMMAND REPEAT				LOCAL SUPPORT REPEAT			
DIV/GROUP TACTICAL				GROUND TOAIR			

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	GANO		YES	NO	YES	NO

8. MEDICAL EMERGENCY PROCEDURES

206 res 8/78	9. PREPARED BY (MEDICAL UNIT LEADER)	110. REVIEWED BY (SAFETY OFFICER)

NFES 1331

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.**