SKILLS MANUAL

CHAPTER SIX

HAZARDOUS MATERIALS

NFPA 470, 2022 Edition

Effective August 1, 2024



Texas Commission on Fire Protection
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SKILLS LIST

DISCIPLINE	OBJECTIVE	#	SKILL NAME	FUNCTIONAL NAME	NFPA#
Awareness	All - Comprehensive	1	R&ID, Initiate PA, Notification	Recognition and Identification, Initiate Protective Actions; Notification	5.2.1, 5.3.1, 5.4.1
	,				
Operations	Identify Potential Hazards	1	Identify PH & Action Options	Identify Potential Hazards and Action Options	7.2.1,
Operations	Action Plan Implementation & Progress Evaluation and Reporting	2	Action Plan Implementation & Progress Evaluation and Reporting	Action Plan Implementation	7.4.1, 7.6.1,
Operations	Emergency Decon	3	Emergency Decon	Emergency Decontamination	7.5.1
Mission Specific Operations	PPE & Product Control	4	PPE & Product Control	Personal Protective Equipment & Product Control	9.2.1, 9.6.1
Technician	Analyzing the incident	1	Analyzing the incident	Detection, Monitoring, and Sampling and Hazard and Response Information Collection and Interpretation	11.2.1, 11.2.2
Technician	Analyzing the incident	2	Analyzing the Incident	Assessing Container Condition, Predicting Behavior, and Estimating Outcomes	11.2.3, 11.2.4, 11.2.5
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	11.3.1, 11.3.3, 11.3.4, 11.5.1
Technician	Implementing the Planned Response	4	Response Planning & Implementing the Planned	Personal Protective Equipment (PPE) Selection and Use	11.3.2, 11.4.2

			Response		
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	11.4.1, 11.6.1
Technician	Implementing the Planned Response	6	Performing Control Functions	Product Control and Controlling Container Leaks	11.4.3.1, 11.4.3.2
Technician	Implementing the Planned Response	7	Performing Control Functions	Overpacking Nonbulk and Radioactive Materials	11.4.3.3
Technician	Implementing the Planned Response	8	Performing Control Functions	Liquid Product Transfer	11.4.3.4
Technician	Implementing the Planned Response	9	Rescue	Rescue Team Member/Victim	11.4.4.1, 11.4.4.2
Technician	Implementing the Planned Response	10	Decontamination	Mass Decontamination /Technical Decontamination	11.4.5.1, 11.4.5.2
HazMat Incident Commander	All - Comprehensive	1	Analyze, Plan, Implement, Evaluation, Termination	Analyze the Incident, Plan Response, Implement IAP, Evaluate Progress and Terminate	13.2.1, 13.3.1, 13.4.1, 13.5.1, 13.6.1

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

<u>Hazardous Materials Operations – Mission Specific Competencies</u>

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
 - o Chlorine emergency kit type "C" or Midland kit
- Cargo Tank Leak Simulator (MC-306/DOT-406 Dome)
- Dome Cover Clamp
- Grounding & Bonding Kit
- Product Transfer Equipment
- Misc. Hand Tools (e.g., hand wrenches, bung wrench, spanner wrench, mallet, screwdrivers, etc.)

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

Hazardous Materials Incident Commander

Reference Material

- Department of Transportation's Emergency Response Guidebook (ERG) (current edition)
- 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
 - o ICS 201 Incident Briefing Form
 - o ICS 202 Incident Objectives Worksheet
 - ICS 203 Organization Assignment List
 - o ICS 204 Division Assignment List
 - ICS 205 Communications Plan
 - o ICS 206 Medical Plan
 - ICS 208HM Site Safety and Control Plan
 - o ICS 211 Incident Check-in List
 - ICS 213 General Message
 - o ICS 214 Unit Log
 - o ICS 215 Incident Planning Worksheet
 - ICS 215A Incident Action Plan Safety Analysis

General

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

PERFORMANCE STANDARD NFPA 470, 2022 Edition, 5.2.1, 5.3.1, 5.4.1

Section 601

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:

5.2.1

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, their hazards, and associated harm are identified.

5.3.1

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.

5.4.1

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

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, 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

Hazardous Materials Awareness Performance Standards

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 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 book/app
- 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.

Hazardous Materials Awareness Performance Standards

General

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

Candidate:		Notes:	
Dept:			_
School:			
Examiner(s)	1		

Hazardous Materials Awareness

Skill #1

5.2.1

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, their hazards, and associated harm are identified.

5.3.1

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.

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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.

	TE:	<u>ST</u>	<u>RETEST</u>	
The candidate shall:	S	U	S	U
a) Recognize indicators to the presence of hazardous materials/WMD, identify hazardous materials/WMD by name, UN/NA identification number, marking/label/placard applied, or container shape identified in the ERG.				
b) Use the ERG, applicable SDS, manufacturer/shipper/carrier documents (including shipping papers and emergency response information),				

Hazardous Materials Awareness Performance Standards

and other approved reference sources to identify hazardous materials/WMD and primary hazards. c) Identify, isolate and secure the hazard area. • Recognize precautions for protecting responders and public • Identify isolation areas • Deny entry • Avoid hazards		
 d) Communicate in accordance with policies and procedures Policies and procedures for notification Reporting Communications 		

S = Satisfactorily completed/performed

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

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

Hazardous Materials Awareness Performance Standards

Examiner/Candidate Comments	5 :				
Cortifuing Eveniner	 Date	Overall Skill	Sheet Score		
Certifying Examiner	Date	Pass □	Fail □		
Re-Test Certifying Examiner	Date	Overall Skill Sheet Re-Test Score			
Ne-Test Certifying Examine	Date	Pass □	Fail □		

General Identify Potential Hazards and Action Options Skill #1

PERFORMANCE STANDARD NFPA 470, 2022 Edition, 7.2.1 Section 602

OBJECTIVES

7.2.1

Identify the scope of the problem at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, and approved reference sources, so that container types, materials, location and physical state (form) of release, and surrounding conditions are identified, hazard and response 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.

7.3.1

Identify the tactics 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 information is collected; strategies, tactics, safety precautions, suitability of approved personal protective equipment (PPE) available, and emergency decontamination needs are identified; and an action plan is developed. 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.

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.

PREPARATION & EQUIPMENT

- Emergency Response Guidebook (ERG), most current edition book/ app
- NIOSH Pocket Guidebook to Chemical Hazards, most current edition
- 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:		Notes:	
Dept:			
School:		_	
Examiner(s)	1		

Hazardous Materials Operations

Skill #1

721

Identify the scope of the problem at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, and approved reference sources, so that container types, materials, location and physical state (form) of release, and surrounding conditions are identified, hazard and response 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.

7.3.1

Identify the tactics 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 information is collected; strategies, tactics, safety precautions, suitability of approved personal protective equipment (PPE) available, and emergency decontamination needs are identified; and an action plan is developed.

	TE:	<u>ST</u>	<u>RETEST</u>	
The candidate shall:	S	U	S	U
a) Identify container types, materials, location and				
physical state (form) 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.				

Hazardous Materials Operations

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d) Describe likely behavior of the	e hazardous materials	;	
or WMD and its container.			
e) Describe likely outcomes assi			
identified behavior and surrouf) Identify strategies and tactics		_f	
the problem and available res	•	"	
g) Identify whether approved PF incident conditions;			
 h) Identify emergency decontary the scope of the problem. 	ination needs based	on	
U = Unsatisfactorily performed/fa All steps of the skill objective are to pass the skill.	_		-
Examiner/Candidate Comments:			
		Overall Skil	Il Sheet Score
Certifying Examiner	Date —	Pass □	Fail
	(Overall Skill Sh	eet Re-Test Score
Re-Test Certifying Examiner	Date –		T

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Fail

Pass □

General Action Plan Implementation Skill #2

PERFORMANCE STANDARD NFPA 470, 2022 Edition, 7.4.1,7.6.1 Section 602 Operations

OBJECTIVE

7.4.1

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 initiated, 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 emergency decontamination is conducted in the field.

7.6.1

Evaluate and report the progress of an assigned task for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, status of implemented strategies and tactics, and approved communication tools and equipment, so that the effectiveness of the assigned task is evaluated and communicated to the Incident Commander or designee so that the IAP can be adjusted as needed

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.

General

Action Plan Implementation
Skill #2

Candidate:		Notes:	
Dept:			
School:			
Examiner(s)	1		

Hazardous Materials Operations

Skill #2

7.4.1

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 initiated, 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 emergency decontamination is conducted in the field.

7.6.1

Evaluate and report the progress of an assigned task for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, status of implemented strategies and tactics, and approved communication tools and equipment, so that the effectiveness of the assigned task is evaluated and communicated to the Incident Commander or designee so that the IAP can be adjusted as needed

	TE.	<u>ST</u>	<u>RETEST</u>	
The candidate shall:		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				

Hazardous Materials Operations Performance Standards

g) Determine whether the response objectives are		
being accomplished		
h) Use approved communications and equipment		
i) iCommunicate the status of assigned tasks		
j) Prevent spread of contamination		
k) Avoid hazards during decontamination		
I) 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

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

Examiner/Candidate Comments: Certifying Examiner Date Date Pass □ Fail □ Overall Skill Sheet Re-Test Score

Date

Pass □

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Re-Test Certifying Examiner

Fail

General Emergency Decontamination Skill #3

PERFORMANCE STANDARD NFPA 470, 2022 edition, 7.5.1

Section 602 Operations

OBJECTIVE

7.5.1

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.

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

General Emergency Decontamination Skill #3

Candidate:		Notes:	
Dept:	_	-	
School:		_	
Examiner(s)	1		

Hazardous Materials Operations

Skill #3

7.5.1

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.

	TE:	<u>ST</u>	RET	<u>EST</u>
The candidate shall:	S	U	S	U
a) Select an emergency contamination method				
b) Set up emergency decontamination in a safe area				
c) Use 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

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

Examiner/Candidate Comments: Overall Skill Sheet Score Certifying Examiner Date Pass □ Fail Overall Skill Sheet Re-Test Score Re-Test Certifying Examiner

Date

Pass □

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Fail

General Personal Protective Equipment & Product Control Skill #4

PERFORMANCE STANDARD NFPA 470, 2022 Edition, 9.2.1, 9.6.1

Section 603
Operations-MSC (PPE & PC)

OBJECTIVES

9.2.1

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; strategies and tactics 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; PPE is maintained and stored consistent with AHJ policies and procedures and NFPA 1891; and all reports and documentation pertaining to PPE use are completed.

9.6.1

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.

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. 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 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.
- 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 book/app
- NIOSH Pocket Guide to Chemical Hazards, most current edition
- 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.

General Personal Protective Equipment & Product Control Skill #4

Candidate:		Notes:	
Dept:		-	
School:		_	
Examiner(s)	/		

Hazardous Materials Operations

Skill #4

9.2.1

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; strategies and tactics 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; PPE is maintained and stored consistent with AHJ policies and procedures and NFPA 1891; and all reports and documentation pertaining to PPE use are completed.

9.6.1

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.

Mission Specific PPE	TE	<u>ST</u>	RET	EST
The candidate shall:	S	U	S	U
a) Select and use the appropriate PPE for the				
assignment				
Inspection				
Donning				
Working in				
Doffing PPE				
Maintenance				
Storing				
b) go through decontamination (emergency and				
technical) while wearing the PPE; and reporting and				
documenting the use of PPE.				
Mind of Oracid Brook of Oracid		^		-C-T
Mission Specific Product Control	JE	<u>ST</u>	RET	<u>ESI</u>
The candidate shall:	S	<u>S1</u> U	REI S	U
The candidate shall: a) Select and perform product control techniques to				
The candidate shall:				
The candidate shall: a) Select and perform product control techniques to confine/contain the release with limited risk of personal exposure				
The candidate shall: a) Select and perform product control techniques to confine/contain the release with limited risk of personal exposure b) Use approved control agents and equipment on a				
The candidate shall: a) Select and perform product control techniques to confine/contain the release with limited risk of personal exposure b) Use approved control agents and equipment on a release involving hazardous materials/WMD; using				
The candidate shall: a) Select and perform product control techniques to confine/contain the release with limited risk of personal exposure b) Use approved control agents and equipment on a				
The candidate shall: a) Select and perform product control techniques to confine/contain the release with limited risk of personal exposure b) Use approved control agents and equipment on a release involving hazardous materials/WMD; using remote control valves and emergency shutoff devices on:				
 The candidate shall: a) Select and perform product control techniques to confine/contain the release with limited risk of personal exposure b) Use approved control agents and equipment on a release involving hazardous materials/WMD; using remote control valves and emergency shutoff devices on: cargo tanks 				
 The candidate shall: a) Select and perform product control techniques to confine/contain the release with limited risk of personal exposure b) Use approved control agents and equipment on a release involving hazardous materials/WMD; using remote control valves and emergency shutoff devices on: cargo tanks intermodal tanks in transportation 				
 The candidate shall: a) Select and perform product control techniques to confine/contain the release with limited risk of personal exposure b) Use approved control agents and equipment on a release involving hazardous materials/WMD; using remote control valves and emergency shutoff devices on: cargo tanks 				

S = Satisfactorily completed/performed

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

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

Examiner/Candidate Comment	ts:		
Certifying Examiner	 Date	Overall Skill	Sheet Score
Certifying Examiner	Date	Pass 🗆	Fail □
Re-Test Certifying Examiner	 Date	Overall Skill She	et Re-Test Score
Ne-rest Gertifying Examine	Date	Pass □	Fail □

Hazardous Materials Technician Performance Standards

Analyzing the Incident

Detection, Monitoring and Sampling and Hazard and Response Information Collection and Interpretation

Skill #1

PERFORMANCE STANDARD NFPA 470, 2022 Edition, 11.2.1, 11.2.1(B), 11.2.2, 11.2.2(B)

Section 604

OBJECTIVES

11.2.1

Collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, including an incident with no release, incidents with a release of visible vapor cloud, liquid pooling, or solid dispersion with and without victims, and an incident with victims displaying signs and symptoms without an apparent chemical release; an assignment, policies and procedures; approved reference sources; and approved tools and equipment, so that hazard and response information is collected, interpreted, and communicated.

11.2.1(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 containers.

11.2.2

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 hazardous materials/WMD incidents, including one involving criminal intent, 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; law enforcement agencies are notified as needed; samples to be sent to laboratories are field screened and appropriately packaged; 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.

11.2.2(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 [colorimetrics (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 when possible; collect samples of gases, liquids, and solids; monitoring, reading, interpreting, recording, 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.

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,
- 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

Hazardous Materials Technician Performance Standards

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
- <u>Scenario B</u>: 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

Hazardous Materials Technician Performance Standards

Analyzing the Incident

Detection, Monitoring and Sampling and Hazard and Response Information Collection and Interpretation

Skill #1

Candidate:		Notes:	
Dept:		_	
School:			
Examiner(s)	1		

Hazardous Materials Technician

Skill #1

11.2.1

Collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, including an incident with no release, incidents with a release of visible vapor cloud, liquid pooling, or solid dispersion with and without victims, and an incident with victims displaying signs and symptoms without an apparent chemical release; an assignment, policies and procedures; approved reference sources; and approved tools and equipment, so that hazard and response information is collected, interpreted, and communicated.

11.2.2

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 hazardous materials/WMD incidents, including one involving criminal intent, 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; law enforcement agencies are notified as needed; samples to be sent to laboratories are field screened and appropriately packaged; personnel using the detection, monitoring, and sampling

Hazardous Materials Technician Performance Standards

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.

detection, monitoring, and sampling operations are reported	TES		RET	EST
The candidate shall:	S	U	S	U
a) Select and use approved PPE				
 b) Use 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 				
 c) Use each of the following types of detection, monitoring, and sampling equipment colorimetrics (e.g., tubes, chips, papers, strips, reagents); flammable gas/LEL noncontact thermal detection device oxygen concentration photoionization detector (PID) radiation detection and monitoring devices d) Classify hazardous materials by basic hazard categories or verify the presence of hazardous materials or determine the concentration of hazardous materials 				
e) Collect samples of gases, liquids, and solids				
f) Monitor, read, interpret, report, and communicate readings from detection, monitoring, and sampling equipment according to the manufacturers' specifications and recommendations				
 g) Determine radiation exposure rates from labels attached to radioactive materials containers 				
h) Identify signs and symptoms of exposure to hazardous materials/WMD, including target organ effects of exposure to hazardous materials/WMD				

Hazardous Materials Technician Performance Standards

i)	Collect and interpret hazard and response		
	information		
j)	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

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

Hazardous Materials Technician Performance Standards

Examiner/Candidate Comments	S :		
Certifying Examiner	 Date	Overall Skill	Sheet Score
Certifying Examiner	Date	Pass □	Fail □
Re-Test Certifying Examiner	 Date	Overall Skill She	et Re-Test Score
No-1031 Ochthyllig Examilie	Date	Pass □	Fail □

Chemical Data Worksheet

Chemical Name:				Date
Synonym/Trade Names:				DOT UN#
Physical Description:				CAS#
Molecular Formula:		Molecular Weight		Structure:
		and Toxicological		
	Source #1	Source #2	Source #3	Source #4
Reference Source				
Page #				
	Phy	sical Properties	T	
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				
0.1101	Chei	nical Properties		
	5.110.			
Reactivities/Incompatibilities				
Corrosively (pH)				
Fire/Spill/Release Rec.				
Other				
TILL TIME OF OTTE	IOXICO	logical Properties	T	
TLV-TWA, -C, -STEL				
PEL or REL				
IDLH				
LD50, LC50				
Radioactivity				
Carcinogen/Mutagen/Teratogen				
Routes of Entry				
Target Organs/ Signs & Symptoms				
First Aid				
Toxic Products of Combustion				
PPE/CPC Recommendations				
Respiratory Protection				

Analyzing the Incident

Assessing Container Condition, Predicting Behavior, and Estimating Outcomes **Skill #2**

PERFORMANCE STANDARD NFPA 470, 2022 edition, 11.2.3, 11.2.4, 11.2.5 Section 604

OBJECTIVE

11.2.3

Assess the condition of a container and its closures at a hazardous materials/WMD incident, given an incident involving hazardous materials/WMD; an assignment; policies and procedures; the scope of the incident; identity of material(s) involved and their hazards, including results of detection, monitoring, and sampling; a container with required markings; and approved resources and PPE, so that PPE is selected and used; the container and its closures are inspected; the type of damage to the container and closures is identified; the type of stress on the container is identified; the level of risk associated with container and closure damage and stress is identified; safety procedures are followed; hazards are avoided or minimized; personnel, tools, and equipment are decontaminated; and a description of the condition of the container and its closures is communicated.

11.2.4

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; 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.

11.2.5

Estimate the potential outcomes at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, 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.

Hazardous Materials Technician Performance Standards

INSTRUCTIONS

Given a simulated Hazardous Materials/WMD incident and approved reference sources (hard copy and electronic databases – i.e., ERG, SDS, NIOSH Pocket Guide, 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. 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
- Computer Aided Management of Emergency Operations (CAMEO), etc.
- Safety data sheet(s) (SDS)
- Shipping papers

Analyzing the Incident

Assessing Container Condition, Predicting Behavior, and Estimating Outcomes **Skill #2**

Candidate:		Notes:	
Dept:			
School:		<u> </u>	
Examiner(s)	1		

Hazardous Materials Technician

Skill #2

11.2.3

Assess the condition of a container and its closures at a hazardous materials/WMD incident, given an incident involving hazardous materials/WMD; an assignment; policies and procedures; the scope of the incident; identity of material(s) involved and their hazards, including results of detection, monitoring, and sampling; a container with required markings; and approved resources and PPE, so that PPE is selected and used; the container and its closures are inspected; the type of damage to the container and closures is identified; the type of stress on the container is identified; the level of risk associated with container and closure damage and stress is identified; safety procedures are followed; hazards are avoided or minimized; personnel, tools, and equipment are decontaminated; and a description of the condition of the container and its closures is communicated.

11.2.4

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; 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.

11.2.5

Estimate the potential outcomes at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, 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.

Hazardous Materials Technician Performance Standards

	TES	<u>ST</u>	RET	<u>EST</u>
The candidate shall:	SU		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) Identifying stress(es) on the container, and				
communicating the condition of the container and its				
closures and the level of risk associated with that				
condition.				
d) Apply the general hazardous materials behavior				
model 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				
Communicate the potential outcomes				

S = Satisfactorily completed/performed

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

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

Hazardous Materials Technician Performance Standards

Examiner/Candidate Comments	S :		
			_
Certifying Examiner	 Date	Overall Skill	Sheet Score
Octalying Examiner	Bate	Pass □	Fail □
Re-Test Certifying Examiner	Date	Overall Skill She	et Re-Test Score
Ne-Test Certifying Examiner	Date	Pass □	Fail □

Container Identification Worksheet

	RAILCAR TANK					
	Container Name	Container Capacity	Common Materials	Common Hazard Classes		
1						
2						
3						
4						
5						
		INTERMODA	AL TANK			
	Container Name/Spec.	Container Capacity	Common Materials	Common Hazard Classes		
1						
2						
3						
4						
5						
		HIGHWAY CAF	SEO TVNK			
	Container Name/Spec.	Container Capacity	Common Materials	Common Hazard Classes		
1	container Name/Spec.	container capacity	Common waterials	Common riazara ciasses		
2						
3						
4						
5						
6						
7		NON BUILT CONTAIN	IED DAGKACING			
	Carlaina Nana	NON-BULK CONTAIN		Comment the set Cleans		
	Container Name	Container Capacity	Common Materials	Common Hazard Classes		
1						
2						
3						
4						
5						
		Intermediate Bulk Contain				
	Containe	er Name	Typica	al Contents		
1						
2						
3						
		FIXED FACILITY ST				
	Containe	er Name	Typica	al Contents		
1						
2						
3						
	RADIOACTIVE MATERIAL PACKAGING					
	Containe	er Name	Typica	al Contents		
1						
2						
3						
4						
5						

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 NFPA 470, 2022 edition, 11.3.1, 11.3.3, 11.3.4, 11.5.1

Section 604

OBJECTIVE

11.3.1

Develop and recommend to the Incident Commander or Hazardous Materials Officer strategies and tactics at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment; 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 strategies are identified for the incident and tactics are identified for each strategy.

11.3.3

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

11.3.4

Develop a plan of action for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, results of the incident analysis, strategies and tactics for the given incident, available resources, and policies and procedures, so that the tasks and resources required to meet the strategies are identified, specified strategies and tactics 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.

11.5.1

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

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

Hazardous Materials Technician Performance Standards

(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:

- <u>Scenario A</u>: A transportation emergency involving a chemical or flammable material release.
- <u>Scenario B</u>: 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 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 preparedworksheet.
- 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
- Computer Aided Management of Emergency Operations (CAMEO), etc.
- Safety data sheet(s) (SDS)

Hazardous Materials Technician Performance Standards

- 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

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:		Notes:	
Dept:			
School:		<u> </u>	
Examiner(s)	1		

Hazardous Materials Technician

Skill #3

11.3.1

Develop and recommend to the Incident Commander or Hazardous Materials Officer strategies and tactics at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment; 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 strategies are identified for the incident and tactics are identified for each strategy.

11.3.3

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

11.3.4

Develop a plan of action for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, results of the incident analysis, strategies and tactics for the given incident, available resources, and policies and procedures, so that the tasks and resources required to meet the strategies are identified, specified strategies and tactics 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.

11.5.1

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

Hazardous Materials Technician Performance Standards

	TE	TEST		<u>EST</u>
The candidate shall:	S	U	S	U
a) Develop strategies for a hazardous materials incident				
and identify tactics for each strategy.				
b) Select decontamination procedures (operations and				
methods)				
c) Identify the equipment required to implement				
decontamination procedure (operations and methods)				
d) Prepare an action plan				
e) Identify site safety and control components				
f) Identify points for a safety briefing				
g) Identify pre-entry tasks				
h) Identify atmospheric and physical safety hazards				
when incident involves a confined space				
i) Preserve and collect legal evidence				
j) Compare predicted behavior of the material and its				
container to the actual behavior				
k) Determine effectiveness of tactics				
Communicate the status of tactics				
m) Modify the tactics based on the incident status review	·			

S = Satisfactorily completed/performed

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

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

Hazardous Materials Technician Performance Standards

Examiner/Candidate Comments	:		
Certifying Examiner	 Date	Overall Skill	Sheet Score
Certifying Examiner	Date	Pass □	Fail □
Po Toot Cortifuing Evenings	Date	Overall Skill She	et Re-Test Score
Re-Test Certifying Examiner	Dale	Pass □	Fail □

Hazardous Materials Technician Performance Standards

HazMat Technician Skill #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					
CONTAINMEN	T SYSTEM ID:_		MATI	ERIAL:	
INICIDENT STA	.GE (EVENT SE				
STRESS	BREACH	RELEASE	ENGULF	CONTACT	HARM
RESPONSE OE	BJECTIVES				
CHANGE APPIED STRESSES	CHANGE BREACH	CHANGE QUANTITY RELEASE	CHANGE DANGER ZONE SIZE	CHANGE EXPOSURES CONTACTED	CHANGE SEVERITY OF HARM
RESPONSE OF	PTIONS AND SA	AFETY CONSID	ERATIONS		

Response Planning Personal Protective Equipment (PPE) Selection and Use

Skill #4

PERFORMANCE STANDARD NFPA 1470, 2022 edition, 11.3.2, 11.4.2 Section 604
TECHNICIAN

OBJECTIVE

11.3.2

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

11.4.2

Test, don, work in, and doff PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, results of the incident analysis, strategies and tactics for the incident, and PPE ensembles as identified in the IAP, so that PPE is 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.

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

Hazardous Materials Technician Performance Standards

- CPC Chemical compatibility charts
- CPC Selection Guide(s)
- Hazardous Materials reference texts
- CPC Worksheets

Hazardous Materials Technician Performance Standards

Response Planning

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

Candidate:		Notes:	
Dept:			
School:			
Examiner(s)	1		

Hazardous Materials Technician Skill #4

11.3.2

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

11.4.2

Test, don, work in, and doff PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, results of the incident analysis, strategies and tactics for the incident, and PPE ensembles as identified in the IAP, so that PPE is 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.

	TE	<u>ST</u>	RET	<u>EST</u>
The candidate:	S	U	S	U
a) Selected PPE ensemble for a specified tactic based				
on all hazards identified				
b) Determined the effectiveness of protective clothing				
based in its uses and limitations				
c) Tested, inspected, donned, worked in, going through				
technical decontamination while wearing PPE				
d) Completed required reports and supporting				
documents for the use of PPE				

Hazardous Materials Technician Performance Standards

S = Satisfactorily completed/performed

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

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

Examiner/Candidate Comments:					
Certifying Examiner	 Date	Overall Skill	Sheet Score		
Certifying Examiner	Date	Pass 🗆	Fail □		
Re-Test Certifying Examiner	Date	Overall Skill Sheet Re-Test S			
No-103t Ochthyllig Examille	Date	Pass □	Fail □		

Chemical Protective Clothing Selection Worksheet

Candidate:	Date:	

Hazardous Material/WMD	CPC Materials/Garment	CPC Breakthrough Time in Min.	CPC Selected for Use (Yes or No)
	1.	Min.	
#1:	2.	Min.	
	3.	Min.	
	1.	Min.	
#2:	2.	Min.	
	3.	Min.	
	1.	Min.	
#3:	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 NFPA 470, 2022 edition, 11.4.1, 11.6.1 Section 604

OBJECTIVE

11.4.1

Perform assigned hazardous materials branch or group functions within ICS at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment; 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.

11.6.1

Terminate a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, 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.

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

Hazardous Materials Technician Performance Standards

Action Plan Implementation

Performing Assigned IMS/ICS Duties and Terminating the Incident **Skill #5**

Candidate:		Notes:	
Dept:			
School:			
Examiner(s)	1		

Hazardous Materials Technician

Skill #5

11.4.1

Perform assigned hazardous materials branch or group functions within ICS at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment; 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.

11.6.1

Terminate a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, 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.

	<u>TE</u>	<u>ST</u>	RET	<u>EST</u>
The candidate:	S	U	S	U
 a) Performed the duties and responsibilities of an assigned function in the hazardous materials branch or a group organization 				
 b) Communicated observations to the hazardous materials branch director/group supervisor, ICS operations section chief, or IC 				
c) Communicated operational observations (incident information) at debriefings and critiques				
 d) Completed, forward, and filing required reports, records, and supporting documentation 				

S = Satisfactorily completed/performed

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

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

Examiner/Candidate Comments	:		
			_
Certifying Examiner	Date	Overall Skill	Sheet Score
Certifying Examiner	Date	Pass □	Fail □
Re-Test Certifying Examiner	Date	Overall Skill She	et Re-Test Score
No-Test Certifying Examiner	Date	Pass □	Fail □

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$IM \cap \cap I \cap I$		SNILL	3 – 10	3 VVUI	\mathbf{N}	EEIO	\square

(create new Word/pdf docs for future updating/easy insertion)

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

PERFORMANCE STANDARD
NFPA 470, 2022 edition, 11.4.3.1, 11.4.3.2

Section 604

OBJECTIVE

11.4.3.1

Perform product control techniques at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product, an assignment, results of the incident analysis, policies and procedures for product control, strategies and tactics 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.

11.4.3.2

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; 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.

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 <u>bulk or non-bulk</u> pressure container or its closures
- Scenario B a leak from a non-bulk liquid container or its closures

Scenario C - a leak from a <u>bulk</u> 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 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 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

TEXAS COMMISSION ON FIRE PROTECTION Hazardous Materials Technician

Performance Standards

- 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

Performing Control Functions

Product Control and Controlling Container Leaks
Skill #6

Candidate:	 Notes:	
Dept:		
School:		
Examiner(s)	 	

Hazardous Materials Technician

Skill #6

11.4.3.1

Perform product control techniques at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product, an assignment, results of the incident analysis, policies and procedures for product control, strategies and tactics 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.

11.4.3.2

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; 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.

Hazardous Materials Technician Performance Standards

	TES	<u>ST</u>	RET	<u>EST</u>
The candidate:	S	U	S	U
a) Selected and used approved PPE, selected and				
used approved control agents and equipment on a				
release involving hazardous materials/WMD				
b) Inspected and maintained tools and equipment				
c) Used container control valves and remote				
emergency shutoff devices				
d) Performed product and control techniques				
e) Controlled leaks on containers and their closures,				
using the following techniques:				
Patching				
Plugging				
Sealing closures				
 Remote valve shutoff 				
 Closing valves 				
 Repositioning container 				
 Replacing missing plugs 				
 Tightening loose fittings 				
f) Decontaminated tools and equipment				
g) Inspected and maintained tools and equipment				
h) Completed required, reporting, and supporting				
documentation for product control operations				

S = Satisfactorily completed/performed

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

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

Hazardous Materials Technician Performance Standards

Examiner/Candidate Comments	S :		
Certifying Examiner	 Date	Overall Skill	Sheet Score
Certifying Examiner	Date	Pass □	Fail □
Re-Test Certifying Examiner	 Date	Overall Skill She	et Re-Test Score
No-1031 Ochthyllig Examilie	Date	Pass □	Fail □

Performing Control Functions Overpacking Nonbulk and Radioactive Materials Skill #7

PERFORMANCE STANDARD NFPA 470, 2022 edition, 11.4.3.3 Section 604

OBJECTIVE

11.4.3.3

Overpack damaged or leaking nonbulk and radioactive materials containers at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment; 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.

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:	 Notes:	
Dept:	 	
School:		
Examiner(s)	 	

Hazardous Materials Technician

Skill #7

11.4.3.3

Overpack damaged or leaking nonbulk and radioactive materials containers at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment; 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.

		TEST		RETEST	
Given a scenario, the candidate shall:		U	S	U	
Scenario A - Place a damaged or leaking nonbulk					
materials container into the overpack container					
Scenario B - Place a damaged or leaking radioactive					
materials container into an overpack container					
a) Select and use approved PPE					
b) Follow safety procedures and minimizing and					
avoiding hazards					
c) Decontaminate tools and equipment and inspecting					
and maintaining tools and equipment					
d) Complete requirements for reporting and					
documenting product control operations					

TEXAS COMMISSION ON FIRE PROTECTION

Hazardous Materials Technician Performance Standards

S = Satisfactorily completed/performed

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

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

Examiner/Candidate Comments:						
Cortifuing Eveniner	 Date	Overall Skill	Sheet Score			
Certifying Examiner	Date	Pass	Fail □			
Re-Test Certifying Examiner	Date	Overall Skill She	et Re-Test Score			
TC-1031 Ochthyllig Examine	Date	Pass □	Fail □			

Performing Control Functions
Liquid Product Transfer
Skill #8

PERFORMANCE STANDARD NFPA 470, 2022 edition, 11.4.3.4 Section 604

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; 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.

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

Performing Control Functions Liquid Product Transfer Skill #8

Candidate:		Notes:	
Dept:			
School:			
Examiner(s)	1		

Hazardous Materials Technician

Skill #8

11.4.3.4

Transfer liquids from leaking nonpressure containers at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment; 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.

	TE	<u>ST</u>	RET	<u>EST</u>
The candidate shall:	S	U	S	U
a) Selected and using PPE				
b) Identified a compatible recovery container and				
transfer equipment				
c) Monitored for hazards				
d) Grounded and bonded containers				
e) Transferred liquid product from a leaking container to				
a recovery container				
f) Suppressed vapors				
g) Decontaminated tools and equipment and inspecting				
and maintaining tools and equipment				
h) Completed reports and supporting documentation for				
product control operations				

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

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

Examiner/Candidate Comments:						
Certifying Examiner	 Date	Overall Skill	Sheet Score			
Certifying Examiner	Date	Pass 🗆	Fail □			
Re-Test Certifying Examiner Date		Overall Skill She	et Re-Test Score			
To Tool Octalying Examiner	Date	Pass □	Fail □			

Rescue
Rescue Team Member/Victim
Skill #9

PERFORMANCE STANDARD NFPA 470, 2022 edition, 11.4.4.1, 11.4.4.2 Section 604

OBJECTIVE

11.4.4.1

Rescue an incapacitated entry team member from the hot zone, given a hazardous materials/WMD incident; an assignment within a backup team; communication of an entry team emergency; and approved tools, equipment, including special rescue equipment, and PPE; so that safety procedures are followed and the entry team member is removed from the hot zone, decontaminated, PPE doffed, and delivered into the care of EMS.

11.4.4.2

Perform rescue and recovery operations at a hazardous materials/WMD incident, given a hazardous materials/WMD incident involving exposed and/or contaminated victims; an assignment; scope of the problem; policies and procedures; approved tools, equipment, including special rescue equipment, and PPE; and access to an emergency response plan, or standard operating procedures so that the feasibility of conducting a rescue or a recovery operation is determined; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; rescue or recovery tactics are selected within the capabilities of available personnel, approved tools, equipment, special rescue equipment, and PPE; victims are rescued or recovered; victims are prioritized and patients are triaged and transferred to the decontamination group, casualty collection point, area of safe refuge, or medical care in accordance with the IAP; personnel, victims, and equipment used are decontaminated; and victim rescue and recovery operations are reported and documented.

INSTRUCTIONS

The technician, operating as a member of a team at a simulated hazardous materials incident, shall demonstrate how to perform technical rescues of both a member of the team and a separate victim (dummy/manikin). The candidate will be assigned one of the following scenarios and must successfully accomplish the individual skills objectives associated with the given scenario.

<u>Scenario A</u> – An entry team member has been involved in an incapacitating event and must be rescued, the candidate must recover the victim and demonstrate the ability to execute all objectives.

Skills Objectives:

- · Identifying rescue situations,
- prioritizing rescues,
- selecting proper rescue options,
- · using rescue tools and equipment,
- moving personnel in PPE,
- conducting rescues,
- doffing rescued personnel's PPE,
- and conducting emergency decontamination.

Scenario B – A victim has succumb to an exposer that is of unknown origin or type, the candidate must recover the victim and demonstrate the ability to execute all objectives.

Skills Objectives:

- Identifying both rescue and recovery situations;
- victim prioritizing and patient triaging;
- selecting proper rescue or recovery tactics;
- · using available specialized rescue equipment;
- selecting and using PPE for the victim and the rescuer;
- · searching for rescuing, and recovering victims;
- following the AHJ's procedures for decontamination of rescue/recovery personnel and their equipment;
- and completing required reports and supporting documentation for victim rescue and recovery operations

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

Rescue Rescue Team Member/Victim Skill #9

Candidate:		Notes:	
Dept:		-	
School:		-	
Examiner(s)	1		

Hazardous Materials Technician

Skill #9

11.4.4.1

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.

11.4.4.2

Perform rescue and recovery operations at a hazardous materials/WMD incident, given a hazardous materials/WMD incident involving exposed and/or contaminated victims; an assignment; scope of the problem; policies and procedures; approved tools, equipment, including special rescue equipment, and PPE; and access to an emergency response plan, or standard operating procedures so that the feasibility of conducting a rescue or a recovery operation is determined; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; rescue or recovery tactics are selected within the capabilities of available personnel, approved tools, equipment, special rescue equipment, and PPE; victims are rescued or recovered; victims are prioritized and patients are triaged and transferred to the decontamination group, casualty collection point, area of safe refuge, or medical care in accordance with the IAP; personnel, victims, and equipment used are decontaminated; and victim rescue and recovery operations are reported and documented.

TEXAS COMMISSION ON FIRE PROTECTION

Hazardous Materials Technician Performance Standards

	TE	<u>ST</u>	RET	<u>EST</u>
The candidate shall:	S	U	S	U
Scenario A - Rescuing an incapacitated entry team members	per			
a) Identifying rescue situations,				
b) prioritizing rescues,				
c) selecting proper rescue options,				
d) using rescue tools and equipment,				
e) moving personnel in PPE,				
f) conducting rescues,				
g) doffing rescued personnel's PPE,				
h) and conducting emergency decontamination.				
Scenario B – Rescuing an incapacitated victim				
a) Identifying both rescue and recovery situations;				
b) victim prioritizing and patient triaging;				
c) selecting proper rescue or recovery tactics;				
d) using available specialized rescue equipment;				
e) selecting and using PPE for the victim and the rescuer;				
f) searching for,				
g) rescuing,				
h) and recovering victims;				
 i) following the AHJ's procedures for decontamination of rescue/recovery personnel and their equipment; 				
 j) and completing required reports and supporting documentation for victim rescue and recovery operations. 				

S = Satisfactorily completed/performed

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

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 Technician Performance Standards

Examiner/Candidate Comments	5 :		
Cortifying Evaminar	Doto	Overall Skill	Sheet Score
Certifying Examiner	Date	Pass □	Fail □
Re-Test Certifying Examiner	D. T. d. O. diff in a Francisco		et Re-Test Score
Ne-Test Certifying Examilier	Date	Pass □	Fail □

Decontamination Mass Decontamination / Technical Decontamination Skill #10

PERFORMANCE STANDARD NFPA 470, 2022 edition, 11.4.5.1, 11.4.5.2 Section 604

OBJECTIVE

11.4.5.1

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; 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 terminated, reported, and documented.

11.4.5.2

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; results of the incident analysis; policies and procedures for technical decontamination; 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; technical decontamination operations are terminated; and all reports and documentation of technical decontamination operations are completed.

INSTRUCTIONS

<u>Scenario A</u> - 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?

<u>Scenario B -</u> 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

Mass Decontamination / Technical Decontamination Skill #10

Candidate:		Notes:	
Dept:		_	
School:			
Examiner(s)	1		

Hazardous Materials Technician

Skill #10

11.4.5.1

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; 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 terminated, reported, and documented.

11.4.5.2

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; results of the incident analysis; policies and procedures for technical decontamination; 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; technical decontamination operations are terminated; and all reports and documentation of technical decontamination operations are completed.

	TE:	<u>ST</u>	RET	<u>EST</u>
The candidate:	S	U	S	U
Scenario A – Technical and Mass Decontamination				
a) Selected and used suitable PPE				

TEXAS COMMISSION ON FIRE PROTECTION

Hazardous Materials Technician Performance Standards

b) Selected a mass decontamination procedure to minimize the hazard		
c) Set up and implemented mass decontamination operations for ambulatory and nonambulatory victims		
d) Evaluated the effectiveness of the mass		
decontamination process		
e) Terminated mass decontamination operations		
f) Completed reporting and documentation requirements		
Scenario B – Technical Decontamination		
a) Selected and used PPE		
b) Selected a technical decontamination procedure to minimize the hazard		
 c) Set up and implemented technical decontamination operations 		
 d) Evaluated the effectiveness of the technical decontamination procedure 		
e) Terminated technical decontamination operations		
Completed required reports and supporting documentation for technical decontamination operations		

S = Satisfactorily completed/performed

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

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 Technician

azardous Materials Techniciar Performance Standards

Examiner/Candidate Comments	S :		
Certifying Examiner	Certifying Examiner Date		Sheet Score
Certifying Examiner Da	Date	Pass 🗆	Fail □
Re-Test Certifying Examiner Date		Overall Skill She	et Re-Test Score
Ne-Test Certifying Examine	Date	Pass □	Fail □

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 NFPA 470, 2022 edition, 13.2.1, 13.3.1, 13.4.1, 13.5.1, 13.6.1

Section 605

OBJECTIVE

13.2.1

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.

13.3.1

Plan the response to a hazardous materials/WMD incident, given a hazardous materials/WMD incident, the results of the incident analysis, available resources, and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, so that the incident objectives, operational modes, strategies, and potential tactics are identified, level of personal protective equipment (PPE) is approved, decontamination process is approved, strategies and tactics are selected based on available resources, and an IAP, including the site safety and control plan, is developed.

13 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 ICS is implemented, resources are directed, a focal point for information transfer is established, and actions are taken to meet the strategies of the IAP.

13.5.1

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

13.6.1

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.

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 actionplan.
 - 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

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:		Notes:	
Dept:			
School:		_	
Examiner(s)	/	_	

Hazardous Materials Incident Commander

Skill #1

13.2.1

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.

13.3.1

Plan the response to a hazardous materials/WMD incident, given a hazardous materials/WMD incident, the results of the incident analysis, available resources, and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, so that the incident objectives, operational modes, strategies, and potential tactics are identified, level of personal protective equipment (PPE) is approved, decontamination process is approved, strategies and tactics are selected based on available resources, and an IAP, including the site safety and control plan, is developed.

13.4.1

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

13.5.1

Evaluate the progress and adjust the IAP as needed at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, results of the incident analysis, an

incident action plan, actions taken, and changing incident conditions, so that actual behavior of material and container is compared to that predicted, effectiveness of strategies and tactics is determined, and modifications to the IAP are made as needed until the scene is determined to be stabilized and hazards are controlled.

13.6.1

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.

	<u>TEST</u>		RETEST	
The candidate:	S	U	S	U
Assessed the hazards and evaluated risks; able to use written and verbal communication.				
b) Approved the PPE and decontamination process for tactics,				
c) Developed an IAP, including the site safety and control plan,				
d) Implemented ICS, including unified command as necessary,				
e) Assigned and directed resources, and established information transfer focal point.				
 f) Compared predicted behavior of the material and its container to the actual behavior, 				
g) determined effectiveness of tactics and actions, and modified the IAP when needed.				
 h) Transferred command: participated in a debriefing post-incident analysis, critiques 				
i) Completed required reports and supporting documentation for overall incident response operations.				

S = Satisfactorily completed/performed

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

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

Examiner/Candidate Comments:						
		Overall Skill Sheet Score				
Certifying Examiner	Date	Pass	Fail			
		Overall Skill Sheet Re-Test Score				
Re-Test Certifying Examiner	Date					
		Pass □	Fail □			