

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

**Analyzing the Incident**

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

**Skill #1**

**PERFORMANCE STANDARD**

**Section 604**

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

**TECHNICIAN**

**OBJECTIVE**

**7.2.1**

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

**7.2.1(B)**

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

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

7.2.2

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

7.2.2(B)

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

**INSTRUCTIONS**

Given a solid, a liquid, and a gas, you will demonstrate the appropriate method for collecting a sample for evaluation. You will select the appropriate type of monitoring equipment to classify or identify the material by using the instruments, reagents and test strips as provided by the AHJ. (Example: if a sample is a liquid and has a pH of 2, it would be an acid. If it also had a LEL of 12%, it would also be a flammable liquid).

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

Given a simulated hazardous materials incident, involving either a pipeline, a mode of transportation or a fixed facility incident, the technician trainee shall:

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

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

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

**EXAMINER'S NOTE**

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

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

**PREPARATION & EQUIPMENT**

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

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**Analyzing the Incident**

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

**Skill #1**

Candidate: \_\_\_\_\_ Date: \_\_\_\_\_

Academy: \_\_\_\_\_ Test Site: \_\_\_\_\_

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

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<p>types of detection, monitoring, and sampling equipment [colorimetric (e.g., tubes, chips, papers, strips, reagents); electrochemical cells (e.g., toxic gas sensors), flammable gas/LEL, noncontact thermal detection device, oxygen concentration, photoionization detector (PID), and radiation detection and monitoring devices] to either classify hazardous materials by basic hazard categories, verify the presence of hazardous materials or determine the concentration of hazardous materials; collect samples of gases, liquids, and solids; monitoring, reading, interpreting, reporting, and communicating readings from detection, monitoring, and sampling equipment according to the manufacturers' specifications and recommendations; and completing required reports and supporting documentation for detection, monitoring, and sampling operations.</p> <p style="text-align: right;">(7.2.1(B))</p> <p>Collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, approved reference sources, and approved tools and equipment, so that hazard and response information is collected, interpreted, and communicated.</p> <p style="text-align: right;">(7.2.2)</p> <p>Collecting and interpreting hazard and response information; identifying signs and symptoms of exposure to hazardous materials/WMD, including target organ effects of exposure to hazardous materials/WMD; and determining radiation exposure rates from labels attached to radioactive materials and containers.</p> <p style="text-align: right;">(7.2.2(B))</p>				
<p><b>The candidate shall:</b></p>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
<p>Using each of the following types of detection, monitoring and sampling equipment:</p> <ul style="list-style-type: none"> <li>• Colorimetric (e.g., tubes, chips, papers, strips, reagents)</li> <li>• Electrochemical cells (e.g., toxic gas sensors)</li> <li>• Flammable gas/LEL</li> <li>• Noncontact thermal detection device</li> <li>• Oxygen concentration</li> </ul>				

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<ul style="list-style-type: none"> <li>• Photoionization detector (PID)</li> <li>* Radiation detection and monitoring devices</li> </ul>				
a) Classify hazardous materials by basic hazard categories or verify the presence of hazardous materials or determine the concentration of hazardous materials				
b) Collect samples of gases, liquids, and solids				
c) Monitor, read, interpret, report, and communicate readings from detection, monitoring, and sampling equipment according to the manufacturers' specifications and recommendations				
d) Determine radiation exposure rates from labels attached to radioactive materials and containers				
e) Identify signs and symptoms of exposure to hazardous materials/WMD, including target organ effects of exposure to hazardous materials/WMD				
f) Collect and interpret hazard and response information				
g) Select and use approved PPE				
h) Complete required reports and supporting documentation for detection, monitoring, and sampling operations				

**S = Satisfactorily completed/performed**

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

**Evaluator/Candidate Comments:**

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

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

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Re-Test Certifying Examiner

Date	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
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# Chemical Data Worksheet

Chemical Name:			Date	
Synonym/Trade Names:			DOT UN #	
Physical Description:			CAS #	
Molecular Formula:		Molecular Weight:		Structure:
<b>Physical, Chemical and Toxicological Properties</b>				
	Source #1	Source #2	Source #3	Source #4
Reference Source				
Page #				
<b>Physical Properties</b>				
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				
<b>Chemical Properties</b>				
Reactivities/Incompatibilities				
Corrosively (pH)				
Fire/Spill/Release Rec.				
Other				
<b>Toxicological Properties</b>				
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				



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

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**Analyzing the Incident**

Assessing Container Condition, Predicting Behavior, and Estimating Outcomes

**Skill #2**

**PERFORMANCE STANDARD**

**Section 604**

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

**OBJECTIVE**

**7.2.3**

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

**7.2.3(B)**

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

**7.2.4**

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

**7.2.4(B)**

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

**7.2.5**

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

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

**7.2.5(B)**

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

**INSTRUCTIONS**

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

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

**EXAMINER'S NOTE**

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

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

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

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

**PREPARATION & EQUIPMENT**

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

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# TEXAS COMMISSION ON FIRE PROTECTION HAZARDOUS MATERIALS TECHNICIAN

## Performance Standards

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

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

**Analyzing the Incident**

Assessing Container Condition, Predicting Behavior, and Estimating Outcomes

**Skill #2**

Candidate: \_\_\_\_\_ Date: \_\_\_\_\_

Academy: \_\_\_\_\_ Test Site: \_\_\_\_\_

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

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

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

**S = Satisfactorily completed/performed**

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

**Evaluator/Candidate Comments:**

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

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

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# Technician Container Identification Worksheet

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

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

Performance Standards

**Response Planning**

Response Objectives and Outcomes, Decontamination Method Selection, Action Plan Development, and Evaluating and Reporting Progress

**Skill #3**

**PERFORMANCE STANDARD**

**Section 604**

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

**TECHNICIAN**

**OBJECTIVE**

**7.3.1**

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

**7.3.1(B)**

Developing response objectives for a hazardous materials incident and identifying action options for each response objective.

**7.3.3**

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

**7.3.3(B)**

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

**7.3.4**

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

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

**7.3.4(B)**

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

**7.5.1**

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

**7.5.1(B)**

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

**INSTRUCTIONS**

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

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

**EXAMINER'S NOTES**

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

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

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

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

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

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

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

**PREPARATION & EQUIPMENT**

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

\*\*Note: Standard ICS forms may include:

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

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

- ICS 204 Division Assignment List
- ICS 205 Communications Plan
- ICS 206 Medical Plan
- ICS 208 HM Site Safety and Control Plan

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

**Response Planning**

Response Objectives and Outcomes, Decontamination Method Selection, Action Plan Development, and Evaluating and Reporting Progress

**Skill #3**

Candidate: \_\_\_\_\_ Date: \_\_\_\_\_

Academy: \_\_\_\_\_ Test Site: \_\_\_\_\_

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

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

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

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

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

**S = Satisfactorily completed/performed**

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

**Evaluator/Candidate Comments:**

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

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

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

**HazMat Technician #3**

Response Objective Analysis Form  
 (Examinee Worksheet)

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

TYPE OF INCIDENT: FACILITY TRANSPORTATION

CONTAINMENT SYSTEM ID: \_\_\_\_\_ MATERIAL: \_\_\_\_\_

INCIDENT STAGE (EVENT SEQUENCE)

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

RESPONSE OBJECTIVES

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

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

Performance Standards

**Response Planning**

Personal Protective Equipment (PPE) Selection and Use

**Skill #4**

**PERFORMANCE STANDARD**

**Section 604**

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

**TECHNICIAN**

**OBJECTIVE**

**7.3.2**

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

**7.3.2(B)**

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

**7.4.2**

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

**7.4.2(B)**

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

**INSTRUCTIONS**

You will be provided a scenario involving a hazardous material. You will then select the appropriate Chemical

Protective Clothing (CPC) using chemical compatibility charts and/or CPC Selection Guides, hazardous materials reference texts, and a CPC worksheet. Using the materials provided, determine the CPC compatibility with the hazardous materials, and identify the breakthrough time (in minutes). You will then Inspect, don, work in, and go through technical decontamination while wearing PPE; and complete any AHJ required

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

reports and supporting documents for the use of PPE. You will begin on my instructions to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

**EXAMINER NOTES**

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

**PREPARATION & EQUIPMENT**

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

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

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

Candidate: \_\_\_\_\_ Date: \_\_\_\_\_

Academy: \_\_\_\_\_ Test Site: \_\_\_\_\_

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

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

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

**S = Satisfactorily completed/performed**

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

**Evaluator/Candidate Comments:**

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

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

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# Chemical Protective Clothing Selection Worksheet

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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

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

Performance Standards

**Action Plan Implementation**

Performing Assigned IMS/ICS Duties and Terminating the Incident

**Skill #5**

**PERFORMANCE STANDARD**

**Section 604**

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

**TECHNICIAN**

**OBJECTIVE**

**7.4.1**

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

**7.4.1(B)**

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

**7.6.1**

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

**7.6.1(B)**

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

**INSTRUCTIONS**

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

**EXAMINER'S NOTES**

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

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

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

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

**Action Plan Implementation**

Performing Assigned IMS/ICS Duties and Terminating the Incident

**Skill #5**

Candidate: \_\_\_\_\_ Date: \_\_\_\_\_

Academy: \_\_\_\_\_ Test Site: \_\_\_\_\_

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

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

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

**S = Satisfactorily completed/performed**

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

**Evaluator/Candidate Comments:**

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

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

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# Incident Command Worksheet

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

Incident Commander(s)	
Name	Date/Time

## Scene Sketch

1st Alarm	
Unit	
Engine	
Engine	
Ladder	
EMS	

2nd Alarm	

3rd Alarm	

Mutual Aid	
Dept	Resource

Side C

Side B
Side D

Side A

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

# Incident Command Worksheet

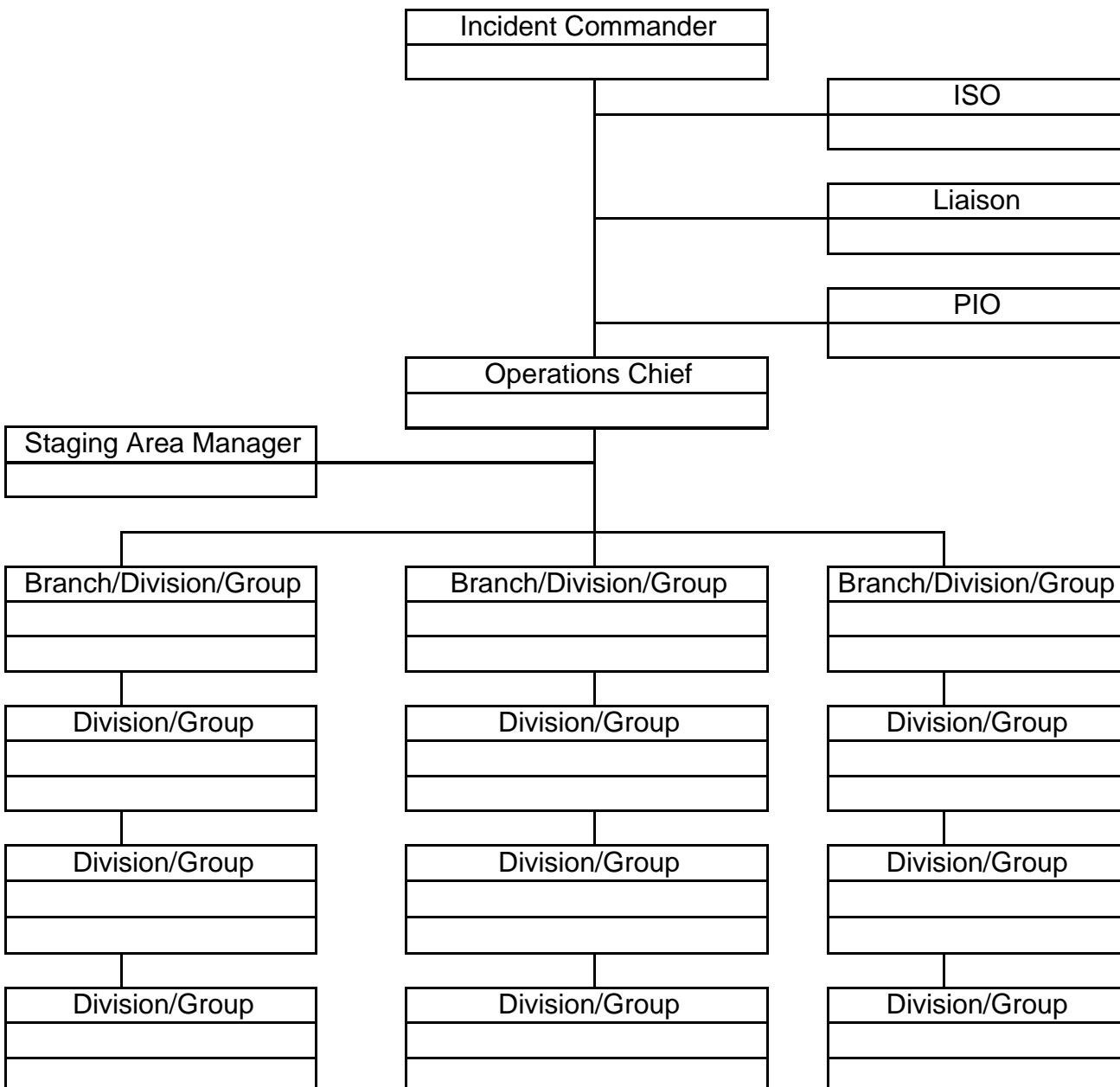
Summary of Resources							
	Resource Ordered	Resource ID	ETA	OS	# of Personnel	Location	Released
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
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36							
37							
38							
39							
40							

# Incident Command Worksheet

Response Objectives
Life Safety
Incident Stabilization
Environmental Protection
Property Preservation

Tactical Priorities
Rescue
Exposures
Confinement
Extinguishment
Overhaul
Ventilation
Salvage

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



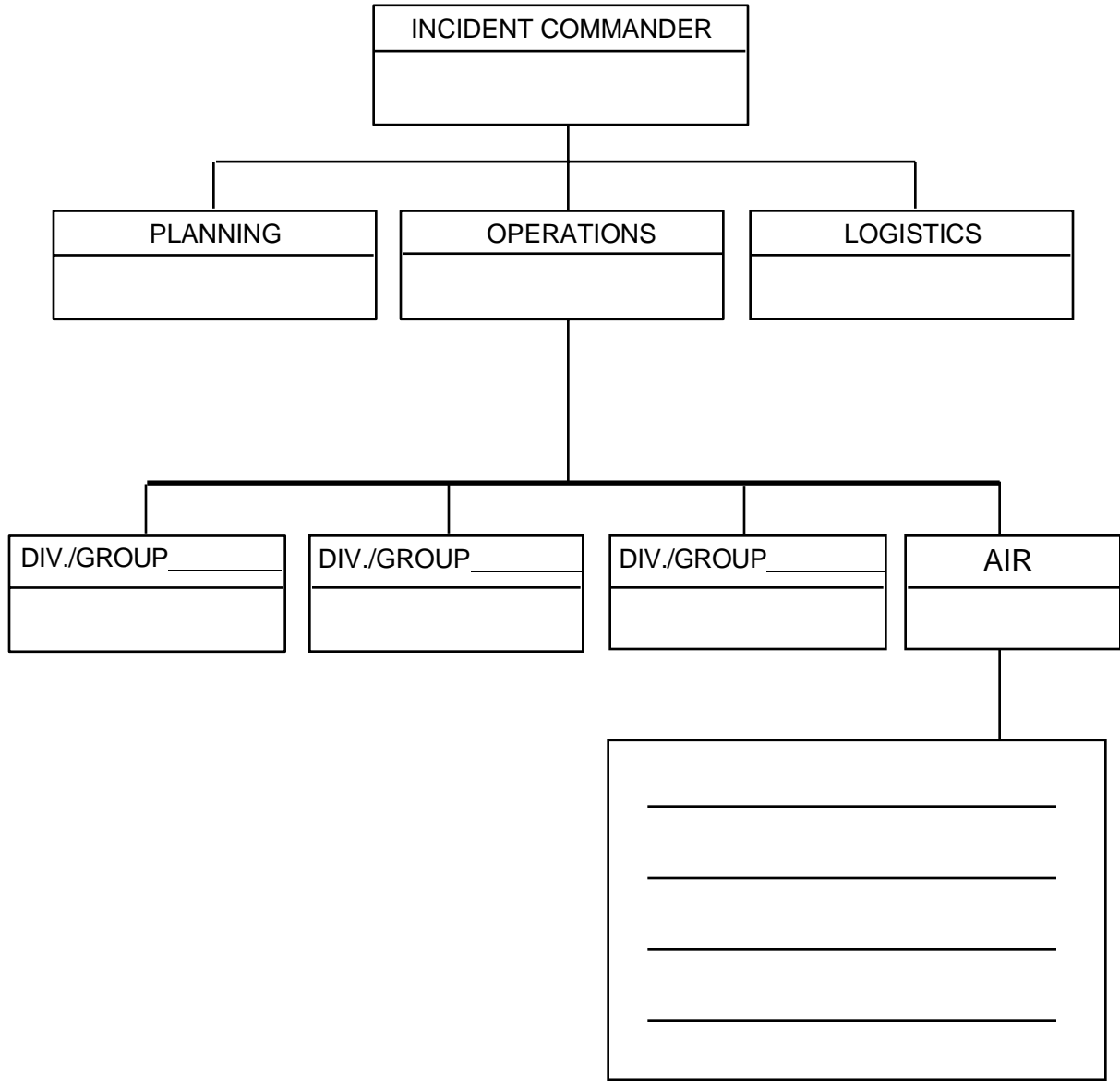
# Incident Command Worksheet

Summary of Actions		
	Time/Date	Activity
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
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27		
28		
29		
30		
31		
32		
33		
34		
35		
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38		
39		
40		

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



7. CURRENT ORGANIZATION



8. RESOURCES SUMMARY

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





<b>ORGANIZATION ASSIGNMENT LIST</b>		1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED
POSITION	NAME	<b>4. OPERATIONAL PERIOD (DATE/TIME)</b>		
<b>5. INCIDENT COMMANDER AND STAFF</b>		<b>9. OPERATIONS SECTION</b>		
INCIDENT COMMANDER		CHIEF		
DEPUTY		DEPUTY		
SAFETY OFFICER		a. BRANCH I- DIVISION/GROUPS		
INFORMATION OFFICER		BRANCH DIRECTOR		
LIAISON OFFICER		DEPUTY		
<b>6. AGENCY REPRESENTATIVES</b>		DIVISION/GROUP		
AGENCY	NAME	DIVISION/GROUP		
		DIVISION/GROUP		
		DIVISION/GROUP		
		DIVISION/GROUP		
		b. BRANCH II- DIVISION/GROUPS		
		BRANCH DIRECTOR		
		DEPUTY		
		DIVISION/GROUP		
		DIVISION/GROUP		
		DIVISION/GROUP		
		DIVISION/GROUP		
<b>7. PLANNING SECTION</b>		c. BRANCH III- DIVISION/GROUPS		
CHIEF		BRANCH DIRECTOR		
DEPUTY		DEPUTY		
RESOURCES UNIT		DIVISION/GROUP		
SITUATION UNIT		DIVISION/GROUP		
DOCUMENTATION UNIT		DIVISION/GROUP		
DEMOBILIZATION UNIT		DIVISION/GROUP		
TECHNICAL SPECIALISTS		DIVISION/GROUP		
		d. AIR OPERATIONS BRANCH		
		AIR OPERATIONS BR. DIR.		
		AIR TACTICAL GROUP SUP		
		AIR SUPPORT GROUP SUP		
		HELICOPTER COORDINATOR		
		AIR TANKER/FIXED WING CRD.		
<b>8. LOGISTICS SECTION</b>		<b>10. FINANCE/ADMINISTRATION SECTION</b>		
CHIEF		CHIEF		
DEPUTY		DEPUTY		
a. SUPPORT BRANCH		TIME UNIT		
DIRECTOR		PROCUREMENT UNIT		
SUPPLY UNIT		COMPENSATION/CLAIMS UNIT		
FACILITIES UNIT		COST UNIT		
GROUND SUPPORT UNIT				
b. SERVICE BRANCH				
DIRECTOR				
COMMUNICATIONS UNIT				
MEDICAL UNIT				
FOOD UNIT				
PREPARED BY (RESOURCES UNIT)				

1. BRANCH	2. DIVISION/GROUP	<h1>ASSIGNMENT LIST</h1>					
3. INCIDENT NAME			4. OPERATIONAL PERIOD				
			DATE _____ TIME _____				
5. OPERATIONAL PERSONNEL							
OPERATIONS CHIEF _____		DIVISION/GROUP SUPERVISOR _____					
BRANCH DIRECTOR _____		AIR TACTICAL GROUP SUPERVISOR _____					
6. RESOURCES ASSIGNED THIS PERIOD							
STRIKE TEAM/TASK FORCE/ RESOURCE DESIGNATOR	EMT	LEADER	NUMBER PERSONS	TRANS. NEEDED	PICKUP PT./TIME	DROP OFF PT./TIME	
7. CONTROL OPERATIONS							
8. SPECIAL INSTRUCTIONS							
9. DIVISION/GROUP COMMUNICATIONS SUMMARY							
FUNCTION	FREQ.	SYSTEM	CHAN.	FUNCTION	FREQ.	SYSTEM	CHAN.
LOCAL COMMAND REPEAT				LOCAL SUPPORT REPEAT			
DIV/GROUP TACTICAL				GROUND TOAIR			
PREPARED BY (RESOURCE UNIT LEADER)			APPROVED BY (PLANNING SECT. CH.)		DATE		TIME

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

SYSTEM/CACHE	CHANNEL	FUNCTION	FREQUENCY/TONE	ASSIGNMENT	REMARKS

5. PREPARED BY (COMMUNICATIONS UNIT)
--------------------------------------

<b>MEDICAL PLAN</b>	1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED	4. OPERATIONAL PERIOD						
5. INCIDENT MEDICAL AID STATIONS										
MEDICAL AID STATIONS	LOCATION			PARAMEDICS						
				YES	NO					
6. TRANSPORTATION										
A. AMBULANCE SERVICES										
NAME	ADDRESS			PHONE	PARAMEDICS					
					YES	NO				
B. INCIDENT AMBULANCES										
NAME	LOCATION			PARAMEDICS						
				YES	NO					
7. HOSPITALS										
NAME	ADDRESS			TRAVEL TIME		PHONE	HELIPAD		BURN CENTER	
				AIR	GANO		YES	NO	YES	NO
8. MEDICAL EMERGENCY PROCEDURES										
206 res 8/78	9. PREPARED BY (MEDICAL UNIT LEADER)					110. REVIEWED BY (SAFETY OFFICER)				

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

**Section VIII. Site Map**

30. Site Map:



Weather  Command Post  Zones  Assembly Areas  Escape Routes  Other

**Section IX. Entry Objectives**

31. Entry Objectives:

**Section X. SOP S and Safe Work Practices**

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

Comment:

**Section XI. Emergency Procedures**

33. Emergency Procedures:

**Section XII. Safety Briefing**

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

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

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

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

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



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

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

**PERFORMANCE STANDARD**

**Section 604**

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

**TECHNICIAN**

**OBJECTIVE**

**7.4.3.1**

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

**7.4.3.1(B)**

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

**7.4.3.2**

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

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

7.2.3.2(B)

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

**INSTRUCTIONS**

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

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

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

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

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

**EXAMINER'S NOTE**

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

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

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

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

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
- 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 SO<sub>2</sub> Kit is also acceptable)
- Chlorine C Kit, Midland Emergency Kit, or Kelso Kit
- Other containment devices, per AHJ

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

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

Candidate: \_\_\_\_\_ Date: \_\_\_\_\_

Academy: \_\_\_\_\_ Test Site: \_\_\_\_\_

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

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

Performance Standards

<p>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.</p> <p style="text-align: right;">(7.4.3.2)</p>				
<p>Selecting and using PPE, selecting, and using approved control agents and equipment; controlling leaks on containers and their closures (patching, plugging, sealing closures, remote valve shutoff, closing valves, repositioning container; replacing missing plugs, and tightening loose fittings); decontaminating tools and equipment; inspecting and maintaining tools and equipment; and requirements for reporting and documenting product control operations.</p> <p style="text-align: right;">(7.2.3.2(B))</p>				
<b>The candidate shall:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
a) Select and use approved PPE, control agents and equipment on a release involving hazardous materials/WMD				
b) Inspect tools and equipment				
c) Use container control valves and remote emergency shutoff devices				
d) Perform product and control techniques				
e) Control leaks on containers and their closures, using the following techniques: <ul style="list-style-type: none"> <li>• Patching</li> <li>• Plugging</li> <li>• Sealing closures</li> <li>• Remote valve shutoff</li> <li>• Closing valves</li> <li>• Repositioning container</li> <li>• Replacing missing plugs</li> </ul>				
f) Tightening loose fittings				
g) Decontaminate tools and equipment				

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

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

**S = Satisfactorily completed/performed**

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

**Evaluator/Candidate Comments:**

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

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

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

**Performing Control Functions**  
Overpacking Nonbulk and Radioactive Materials  
**Skill #7**

**PERFORMANCE STANDARD**

**Section 604**

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

**TECHNICIAN**

**OBJECTIVE**

**7.4.3.3**

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

**7.4.3.3(B)**

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

**INSTRUCTIONS**

Presented with a leaking container:

- Scenario A – A damaged or leaking 55-gallon drum
- Scenario B – A damaged or leaking radioactive materials container

You will choose the appropriate tools and equipment from the equipment available, inspect its serviceability, and contain the leak. Additionally, you will over pack the drum utilizing a randomly selected method (selected by the examiner). After donning CPC, you will begin on my instruction to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

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

**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

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

**Performing Control Functions**

Overpacking Nonbulk and Radioactive Materials

**Skill #7**

Candidate: \_\_\_\_\_ Date: \_\_\_\_\_

Academy: \_\_\_\_\_ Test Site: \_\_\_\_\_

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

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

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

**S = Satisfactorily completed/performed**

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

**Evaluator/Candidate Comments:**

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

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

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

Performance Standards

**Performing Control Functions**

Liquid Product Transfer

**Skill #8**

**PERFORMANCE STANDARD**

**Section 604**

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

**TECHNICIAN**

**OBJECTIVE**

**7.4.3.4**

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

**7.4.3.4(B)**

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

**INSTRUCTIONS**

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

You will select and use appropriate PPE, identify a compatible recovery container and transfer equipment, monitor for hazards, transfer liquid product from a leaking container to a recovery container, suppress vapors, inspect and maintain tools and equipment, decontaminate responders, tools, and equipment, and complete report and supporting documentation for liquid product transfer operations.

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

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

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

**Performing Control Functions**  
 Liquid Product Transfer  
**Skill #8**

Candidate: \_\_\_\_\_ Date: \_\_\_\_\_

Academy: \_\_\_\_\_ Test Site: \_\_\_\_\_

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

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

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

**S = Satisfactorily completed/performed**

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

**Evaluator/Candidate Comments:**

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

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

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

Performance Standards

**Decontamination  
Mass Decontamination  
Skill #9**

**PERFORMANCE STANDARD**

**Section 604**

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

**TECHNICIAN**

**OBJECTIVE**

**7.4.4.1**

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

**7.4.4.1(B)**

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

**INSTRUCTIONS**

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

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

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

**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

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

Performance Standards

**Decontamination**

Mass Decontamination

**Skill #9**

Candidate: \_\_\_\_\_ Date: \_\_\_\_\_

Academy: \_\_\_\_\_ Test Site: \_\_\_\_\_

HAZARDOUS MATERIALS TECHNICIAN	<u>TEST</u>		<u>RETEST</u>	
Skill #9	S	U	S	U
<p>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.</p> <p style="text-align: right;">(7.4.4.1)</p>				
<p>Selecting and using suitable PPE, selecting a mass decontamination procedure to minimize the hazard, setting up and implementing mass decontamination operations for ambulatory and non-ambulatory victims, evaluating the effectiveness of the mass decontamination process, and completing reporting and documentation requirements.</p> <p style="text-align: right;">(7.4.4.1(B))</p>				
<b>The candidate shall:</b>	<b>S</b>	<b>U</b>	<b>S</b>	<b>U</b>
a) Select and use suitable PPE				
b) Select a mass decontamination procedure to minimize the hazard				
c) Set up and implement mass decontamination operations for ambulatory and non-ambulatory victims				
d) Evaluate the effectiveness of the mass decontamination process				

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

e) Complete reporting and documentation requirements				
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**S = Satisfactorily completed/performed**

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

**Evaluator/Candidate Comments:**

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

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

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

Performance Standards

**Decontamination**

Technical Decontamination

**Skill #10**

**PERFORMANCE STANDARD**

**Section 604**

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

**TECHNICIAN**

**OBJECTIVE**

**7.4.4.2**

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

**7.4.4.2(B)**

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

**INSTRUCTIONS**

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

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

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

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

Performance Standards

**Decontamination**

Technical Decontamination

**Skill #10**

Candidate: \_\_\_\_\_ Date: \_\_\_\_\_

Academy: \_\_\_\_\_ Test Site: \_\_\_\_\_

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

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

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

**S = Satisfactorily completed/performed**

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

**Evaluator/Candidate Comments:**

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

\_\_\_\_\_  
 Certifying Examiner

\_\_\_\_\_  
 Date

Overall Skill Sheet Score

Pass  Fail

\_\_\_\_\_  
 Re-Test Certifying Examiner

\_\_\_\_\_  
 Date

Overall Skill Sheet Re-Test Score

Pass  Fail

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