

**HAZARDOUS MATERIALS TECHNICIAN  
COMPETENCY ASSESSMENT CHECK-OFF**



**North Central Florida Regional  
Hazardous Materials Response Team**

**2002  
EDITION**



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## Introduction

This document has been developed to provide guidance for regularly scheduled competency maintenance of Hazardous Materials Technicians. The psychomotor skills found in the competencies outlined in NFPA 472, OSHA 29CFR1910.120 and the Florida State Emergency Response Commissions Public Sector Hazardous Materials Training Guidelines have been brought together in a series of five operational sections totaling 107 performance based skills.

This document is recommended for initial training of technicians as well as documentation of periodic maintenance. In accordance with OSHA 29 CFR 1910.120(q), the employer is responsible for designating appropriate re-certification procedures and the identifying the necessary qualification of those authorized to sign this document indicating successful completion of a competency. Those authorized signers should enter the necessary information in Appendix 1 to properly cross-reference their signature.

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# COMPETENCY CHECKLIST INCIDENT COMMAND AND TECHNICIAN ROLES

Technician: \_\_\_\_\_

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

In order to demonstrate continued ability at the technician level of training the following competencies should be demonstrated during a simulated or actual hazardous materials incident:

<b>AREA 1.1 TECHNICIAN ROLES AND THE INCIDENT COMMAND SYSTEM</b>		
<b>No.</b>	<b>Requirement</b>	
1.1.1	The technician has demonstrated an understanding of his role as a during an actual or simulated hazardous materials emergency.	_____ (Signature)
		____/____/____ (Date)
1.2.1	The technician has demonstrated an understanding of the roles, responsibilities and interrelationship between the various hazardous materials functions within the ICS management system as called for by the employers hazardous materials emergency response plan (ERP). These roles should include backup, decontamination, entry, safety officer(s), haz-mat group and/or branch, science, site access control, technical specialists.	_____ (Signature)
		____/____/____ (Date)
1.2.2	Demonstrate the ability to perform the duties of any assigned position within the hazardous materials group or branch.	_____ (Signature)
		____/____/____ (Date)
<b>Evaluator Remarks</b>		
		_____ (Signature)
		____/____/____ (Date)

# **COMPETENCY CHECKLIST INCIDENT COMMAND AND TECHNICIAN ROLES**



# COMPETENCY CHECKLIST HAZARD/RISK ASSESSMENT PROCEDURES

Technician: \_\_\_\_\_

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

The following air monitoring competencies should be demonstrated in a controlled environment such as skill stations or simulated incidents:

<b>AREA 2.1 HAZARD AND RISK ASSESSMENT – AIR MONITORING, SAMPLE COLLECTION &amp; QUALITATIVE ANALYSIS</b>		
<b>No.</b>	<b>Requirement</b>	
2.1.1	Given various written scenarios, demonstrate the ability to select the appropriate air monitoring instrument(s) necessary for the qualitative and quantitative analysis of the potentially hazardous environment caused by airborne gases or vapors.	_____ (Signature)      ____/____/____ (Date)
2.1.2	Given air monitoring devices provided by the employer, demonstrate the ability to complete the following: 1) determine the inherent safety rating of the instrument and 2) properly start and prepare the instrument for operation in accordance with manufacturer recommendations.	_____ (Signature)      ____/____/____ (Date)
2.1.3	Demonstrate proper field maintenance of all air monitoring devices provided by the employer in accordance with the employer's written air monitoring equipment plan and the recommendations of the manufacturer.	_____ (Signature)      ____/____/____ (Date)
2.1.4	Given a simulated incident involving an unidentified hazardous material and equipment provided by the employer, demonstrate the ability to properly conduct air monitoring including proper: 1) monitoring sequence, 2) approach, 3) sampling patterns, 4) selection of elevations and, 5) speed and interpret the instrument readings.	_____ (Signature)      ____/____/____ (Date)
2.1.5	Given controlled skill stations with live samples, demonstrate proper reading and interpretation of including indication of potential false negatives and positives, for each of following types of air monitoring instruments: [ ] pH indicators or meters, [ ] radiation survey instruments, [ ] personal alarms and [ ] dosimeters, [ ] oxygen concentration instruments, [ ] combustible gas indicators, [ ] electro chemical gas monitors, [ ] color-metric detectors tubes and/or badges , [ ] photo-ionization detectors, [ ] flame-ionization detectors, [ ] IR Spectrometry and [ ] other instruments provided by the employer.	_____ (Signature)      ____/____/____ (Date)

# COMPETENCY CHECKLIST HAZARD/RISK ASSESSMENT PROCEDURES

<b>AREA 2.1 HAZARD AND RISK ASSESSMENT – AIR MONITORING, SAMPLE COLLECTION &amp; QUALITATIVE ANALYSIS</b>		
<b>No.</b>	<b>Requirement</b>	
2.1.6	Demonstrate the ability to properly document air monitoring activities in accordance with the employer's emergency response plan.	_____ (Signature) <u>  /  /  </u> (Date)
2.1.7	Properly describe to the assessor the differences between 1) instrument calibration, 2) field calibration check, 3) spanning and 4) bump test, as well as the applicability for each process.	_____ (Signature) <u>  /  /  </u> (Date)
2.1.8	Given an unknown gas or vapor, demonstrate the ability to identify or classify the material by hazard using air monitoring instruments.	_____ (Signature) <u>  /  /  </u> (Date)
2.1.9	Demonstrate the ability to obtain an air sample for off-site analysis using equipment and procedures provided by the employer.	_____ (Signature) <u>  /  /  </u> (Date)
2.1.10	Demonstrate the ability to document sample collection procedures and the chain of custody in a manner consistent with law enforcement evidence gathering procedures.	_____ (Signature) <u>  /  /  </u> (Date)
<b>Evaluator Remarks</b>		
		_____ (Signature) <u>  /  /  </u> (Date)

# COMPETENCY CHECKLIST HAZARD/RISK ASSESSMENT

Technician: \_\_\_\_\_

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

The following air monitoring competencies should be demonstrated in a controlled environment such as skill stations or simulated incidents:

<b>AREA 2.2 HAZARD/RISK ASSESSMENT – FIELD CHEMICAL ANALYSIS</b>		
<b>No.</b>	<b>Requirement</b>	
2.2.1	Demonstrate the ability to select and establish a suitable location for the field chemical analysis of solid, liquid or gas samples being recovered from the isolation area for cold zone analysis.	_____ (Signature) <span style="float: right; margin-left: 20px;">             ____/____/____              (Date)           </span>
2.2.2	Given two unidentified samples (one solid and one liquid) and, using the procedures identified by the employer, the technician will demonstrate the ability to properly perform a field chemical analysis process necessary to identify or classify the hazards of the material.	_____ (Signature) <span style="float: right; margin-left: 20px;">             ____/____/____              (Date)           </span>
2.2.3	Demonstrate the ability to maintain a safe, clean and orderly field chemical analysis work area during all analysis procedures.	_____ (Signature) <span style="float: right; margin-left: 20px;">             ____/____/____              (Date)           </span>
2.2.4	Demonstrate the ability to properly document the field chemical analysis procedures used and results obtained.	_____ (Signature) <span style="float: right; margin-left: 20px;">             ____/____/____              (Date)           </span>
<b>Evaluator Remarks</b>		
		_____ (Signature) <span style="float: right; margin-left: 20px;">             ____/____/____              (Date)           </span>

# HAZARD/RISK ASSESSMENT

# COMPETENCY CHECKLIST HAZARD/RISK ASSESSMENT

Technician: \_\_\_\_\_

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

The following hazard/risk assessment competencies should be assessed during tabletop exercises or simulated incidents.

<b>AREA 2.3 HAZARD/RISK ASSESSMENT – SCIENCE AND RESEARCH</b>		
<b>No.</b>	<b>Requirement</b>	
2.3.1	Given no less than 5 incident scenarios, demonstrate the ability to select the reference sources or databases necessary to complete a hazard/risk assessment of the involved materials.	_____ (Signature)
		____/____/____ (Date)
2.3.2	Given no less than 5 incident scenarios, demonstrate the ability to obtain from employer provided reference materials and databases the information necessary to assess the hazards of given materials. This assessment shall include: 1) information concerning material identity and environmental reporting requirements, 2) physical and chemical characteristics, 3) flammability or combustibility, 4) toxicity information including all published exposure limits, 5) reactivity and radioactivity data, fire leak and spill control considerations, and 6) proper packaging and disposal procedures.	_____ (Signature)
		____/____/____ (Date)
2.3.3	Given incident scenarios including research data and data from air monitoring instruments, the technician will demonstrate the ability to assess the risks to response personnel and the public.	_____ (Signature)
		____/____/____ (Date)
2.3.4	Given 5 hazardous materials scenarios, the technician will determine the signs and symptoms of over-exposure to the materials involved.	_____ (Signature)
		____/____/____ (Date)
2.3.5	Given 2 hazardous materials scenarios involving multiple hazardous substances, the technician shall rank the materials with regards to anticipated level of risk.	_____ (Signature)
		____/____/____ (Date)
2.3.6	Given equipment provided by the employer, demonstrate the ability to setup real time surface meteorological monitoring capabilities and properly to interface the equipment with computers used for dispersion modeling.	_____ (Signature)
		____/____/____ (Date)



# COMPETENCY CHECKLIST HAZARD/RISK ASSESSMENT

Technician: \_\_\_\_\_

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

A combination of simulated incidents and tabletop activities with supporting photographs or other media can be used to demonstrate these competencies.

<b>AREA 2.4 HAZARD/RISK ASSESSMENT – CONTAINER ASSESSMENT</b>		
<b>No.</b>	<b>Requirement</b>	
2.4.1	Given various fixed, transportation and portable containers, the technician shall demonstrate the abilities to identify the container type and potential materials carried or stored within the container.	_____ (Signature)      ____/____/____ (Date)
2.4.2	Given a scenario involving a container, demonstrate the ability to determine the pressure and remaining lading within the container.	_____ (Signature)      ____/____/____ (Date)
2.4.3	Given a scenario involving a highway transportation container with appropriate specification plates, determine the type, capacity and construction characteristics of the container necessary to conduct a container damage assessment.	_____ (Signature)      ____/____/____ (Date)
2.4.4	Given a simulated incident with damaged containers, demonstrate the ability to collect information necessary for completion of a container damage assessment.	_____ (Signature)      ____/____/____ (Date)
2.4.5	Given a simulated incident involving containers, demonstrate the ability to differentiate between liquid and vapor lines.	_____ (Signature)      ____/____/____ (Date)
<b>Evaluator Remarks</b>		
		_____ (Signature)      ____/____/____ (Date)

# COMPETENCY CHECKLIST HAZARD/RISK ASSESSMENT



# COMPETENCY CHECKLIST HAZARD/RISK ASSESSMENT

Technician: \_\_\_\_\_

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

A combination of simulated incidents and tabletop activities with supporting photographs or other media can be used to demonstrate these competencies.

<b>AREA 2.5</b>		
<b>HAZARD/RISK ASSESSMENT – ESTIMATION OF BEHAVIOR AND HARM</b>		
<b>No.</b>	<b>Requirement</b>	
2.5.1	Given a simulated incident or written scenario while acting in a Research Group function, the technician shall demonstrate the ability to develop an estimation of potential behavior and harm caused by the hazardous material(s).	_____ (Signature)
		____/____/____ (Date)
2.5.2	Given various scenarios, the technician will demonstrate the ability to properly perform a vapor dispersion model using computer-modeling equipment and software provided by the employer.	_____ (Signature)
		____/____/____ (Date)
2.5.3	Given a simulated incident and while operating in chemical protective clothing, demonstrate the ability to recognize potential IDLH conditions.	_____ (Signature)
		____/____/____ (Date)
2.5.4	While operating in chemical protective clothing at a simulated incident, the technician will, based upon risk/benefit analysis, demonstrate the ability to minimize or avoid exposure to areas that would present the highest hazards.	_____ (Signature)
		____/____/____ (Date)
<b>Evaluator Remarks</b>		
		_____ (Signature)
		____/____/____ (Date)

# COMPETENCY CHECKLIST HAZARD/RISK ASSESSMENT

# COMPETENCY CHECKLIST PROTECTIVE MEASURES

Technician: \_\_\_\_\_

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

The psychomotor competencies for Personal Protective Equipment (PPE) should be demonstrated during hands-on scenario based or in learning station environments using all appropriate PPE as provided by the employer.

<b>AREA 3.1</b>		
<b>PROTECTIVE MEASURES – PERSONAL PROTECTIVE EQUIPMENT</b>		
<b>No.</b>	<b>Requirement</b>	
<b>GARMENT SELECTION</b>		
3.1.1	Given at least 3 scenarios with both known and unknown hazardous materials with a defined plan of action and entry mission, the technician will demonstrate the ability to select the appropriate PPE ensemble for the completion of that mission.	_____ (Signature)
		____/____/____ (Date)
3.1.2	Given at least 3 chemical compounds and garments provided by the employer, demonstrate the ability to determine garment fabric compatibility in accordance with manufacturer recommendations.	_____ (Signature)
		____/____/____ (Date)
3.1.3	Given an identified mission and ensemble as well as a selection of all the employer's provided personal protective equipment, the technician will select the items necessary to properly assemble a complete protective ensemble in accordance with the employer's emergency response plan. This shall include: all respiratory protective equipment, dermal protective equipment, accessory safety equipment, communications equipment and work tools.	_____ (Signature)
		____/____/____ (Date)
3.1.4	Having selected the appropriate respiratory protective equipment and chemical protective garment, the technician shall demonstrate the ability to properly perform a pre-donning safety check of the equipment. This shall include a visual inspection of the garment for at least three indicators of fabric degradation or for signs of physical damage.	_____ (Signature)
		____/____/____ (Date)

# COMPETENCY CHECKLIST PROTECTIVE MEASURES

<b>AREA 3.1 PROTECTIVE MEASURES – PERSONAL PROTECTIVE EQUIPMENT</b>		
<b>No.</b>	<b>Requirement</b>	
<b>Personal Protective Equipment Use</b>		
3.1.5	Given appropriate PPE as provided by the employer and in accordance with the employer's emergency response plan, the technician will demonstrate the ability to don, work-in and doff liquid splash protective garments and any other associated PPE.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%; margin-bottom: 5px;"></div> <div style="text-align: center; margin-bottom: 5px;">/ /</div> </div> (Signature) (Date)
3.1.6	Given appropriate PPE as provided by the employer and in accordance with the employer's emergency response plan, the technician will demonstrate the ability to don, work-in and doff vapor-protective garments and any other associated PPE.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%; margin-bottom: 5px;"></div> <div style="text-align: center; margin-bottom: 5px;">/ /</div> </div> (Signature) (Date)
3.1.7	Given a situation in which the technician is operating in a simulated IDLH environment while wearing chemical protective clothing, the technician will demonstrate the ability to perform emergency procedures for: 1) garment breach, 2) low air supply alarm, 3) SCBA failure, 4) loss or disorientation and 5) partner emergency.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%; margin-bottom: 5px;"></div> <div style="text-align: center; margin-bottom: 5px;">/ /</div> </div> (Signature) (Date)
3.1.8	Given an emergency situation, the technician will demonstrate the ability to communicate the emergency situation in accordance with the employer's emergency response plan. This shall include verbal and non-verbal means (e.g. hand signals).	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%; margin-bottom: 5px;"></div> <div style="text-align: center; margin-bottom: 5px;">/ /</div> </div> (Signature) (Date)
3.1.9	While operating in chemical protective clothing within a simulated hazardous environment, the technician shall demonstrate the ability to take actions that would limit garment contamination to the extent feasible.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%; margin-bottom: 5px;"></div> <div style="text-align: center; margin-bottom: 5px;">/ /</div> </div> (Signature) (Date)
<b>Protective Garment Maintenance</b>		
3.1.10	Given a chemical protective garment during routine maintenance and testing, the technician will demonstrate the ability to thoroughly inspect the garment for signs of degradation and physical damage.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%; margin-bottom: 5px;"></div> <div style="text-align: center; margin-bottom: 5px;">/ /</div> </div> (Signature) (Date)

# COMPETENCY CHECKLIST PROTECTIVE MEASURES

<b>AREA 3.1</b>	
<b>PROTECTIVE MEASURES – PERSONAL PROTECTIVE EQUIPMENT</b>	
<b>No.</b>	<b>Requirement</b>
3.1.11	<p>Given a vapor protective garment provided by the employer and testing equipment recommended by the manufacturer, the technician will demonstrate the ability to perform a qualitative leak test on the garment in accordance with manufacturer instructions.</p> <p style="text-align: right;">_____ / / (Signature) (Date)</p>
3.1.12	<p>Given a vapor protective garment similar to those provided by the manufacturer, the technician will demonstrate the ability to properly locate a garment leak and take appropriate maintenance/repair actions (which may include returning the garment to the manufacturer) in accordance with the employer's personal protective equipment plan.</p> <p style="text-align: right;">_____ / / (Signature) (Date)</p>
3.1.13	<p>Given appropriate suit testing and maintenance log, the technician will demonstrate the ability to properly document a qualitative leak test and repairs.</p> <p style="text-align: right;">_____ / / (Signature) (Date)</p>
<b>Evaluator Remarks</b>	
<div style="text-align: right; margin-top: 50px;">           _____ / /            (Signature) (Date)         </div>	

# COMPETENCY CHECKLIST PROTECTIVE MEASURES

# COMPETENCY CHECKLIST PROTECTIVE MEASURES

Technician: \_\_\_\_\_

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

can be used to demonstrate these competencies.

<b>AREA 3.2</b>	
<b>– OL ZONES AND OPERATIONAL AREAS</b>	
<b>No.</b>	<b>Requirement</b>
3.2.1	Given a simulated hazardous materials incident and a completed hazard/risk assessment, the technician will demonstrate the ability to establish a visible control zone in accordance with the employer's emergency response plan.
	_____ (Signature)
	____/____/____ (Date)
3.2.2	Given a hazardous materials incident scenario and a completed hazard/risk assessment, the technician will recommend appropriate isolation and protective action distances and communicate those recommendations to the appropriate supervisor.
	_____ (Signature)
	____/____/____ (Date)
3.2.3	Given a simulated incident, the technician will demonstrate the ability to properly maintain control zones in accordance with the site safety plan and the employer's emergency response plan.
	_____ (Signature)
	____/____/____ (Date)
<b>Evaluator Remarks</b>	
	_____ (Signature)
	____/____/____ (Date)

# COMPETENCY CHECKLIST PROTECTIVE MEASURES



# COMPETENCY CHECKLIST PROTECTIVE MEASURES

Technician: \_\_\_\_\_

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

A combination of simulated incidents and tabletop activities with supporting photographs or other media can be used to demonstrate these competencies.

<b>AREA 3.3 PROTECTIVE MEASURES – DECONTAMINATION</b>		
<b>No.</b>	<b>Requirement</b>	
3.3.1	The technician will demonstrate the ability to acquire information concerning proper decontamination procedures from at least three reference sources	<div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div> (Signature) <span style="float: right; margin-left: 20px;"> <div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div>           / / (Date)         </span>
3.3.2	Given at least two hazardous materials incident scenarios and a completed hazard/risk assessment, the technician will demonstrate the ability to select an appropriate decontamination procedure and determine the equipment necessary to implement that procedure.	<div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div> (Signature) <span style="float: right; margin-left: 20px;"> <div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div>           / / (Date)         </span>
3.3.3	The technician will demonstrate the ability to take actions necessary to minimize contamination of personnel and equipment during isolation area operations.	
3.3.4	Given a simulated hazardous materials incident, demonstrate the ability to select an appropriate location for the establishment of a contamination reduction corridor.	<div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div> (Signature) <span style="float: right; margin-left: 20px;"> <div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div>           / / (Date)         </span>
3.3.5	Given a simulated hazardous materials incident and while working as a member of a decontamination team, the technician will demonstrate the ability to setup the contamination reduction corridor necessary for the appropriate procedure.	<div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div> (Signature) <span style="float: right; margin-left: 20px;"> <div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div>           / / (Date)         </span>
3.3.6	Given a simulated hazardous materials incident and while functioning as a member of the decontamination team, the technician will demonstrate the ability to perform decontamination on response personnel exiting the isolation area.	<div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div> (Signature) <span style="float: right; margin-left: 20px;"> <div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div>           / / (Date)         </span>
3.3.7	The technician will demonstrate the ability to perform emergency decontamination procedures for both a contaminated responder and a non-ambulatory victim of a hazardous materials incident in accordance with the employer's emergency response plan.	<div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div> (Signature) <span style="float: right; margin-left: 20px;"> <div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div>           / / (Date)         </span>

# COMPETENCY CHECKLIST PROTECTIVE MEASURES

<b>AREA 3.3 PROTECTIVE MEASURES – DECONTAMINATION</b>		
<b>No.</b>	<b>Requirement</b>	
3.3.8	Given a stable, non-ambulatory victim of a simulated hazardous materials incident, demonstrate the ability to properly perform gross and secondary decontamination procedures for this patient.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
3.3.9	The technician will demonstrate the ability to minimize cross contamination and the extension contamination beyond the decontamination area by properly implementing: a) decontamination area security, b) personnel and equipment flow patterns and c) run-off, slop-over and over-spray minimization procedures.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
3.3.10	The technician will demonstrate an ability to control, contain and containerize excessive run-off materials generated during the decontamination process.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
3.3.11	The technician will demonstrate an understanding of the procedures to be used for the decontamination of non-expendable equipment in accordance with the employer's emergency response plan.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
3.3.12	The technician will demonstrate the ability to properly document the decontamination procedures taken during a simulated incident.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
<b>Evaluator Remarks</b>		
		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)

# COMPETENCY CHECKLIST PROTECTIVE MEASURES

Technician: \_\_\_\_\_

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

<b>AREA 3.4 PROTECTIVE MEASURES – MEDICAL</b>		
<b>No.</b>	<b>Requirement</b>	
3.4.1	Given a simulated or tabletop scenario, the technician will identify the proper EMS components necessary to managing the responder health issues at the incident scene.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
3.4.2	Given a simulated hazardous material incident, the responder will describe the function of the Medical Group within the incident command structure in accordance with the employer's emergency response plan and operational procedures.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
3.4.3	Given a simulated incident or tabletop scenario and necessary meteorological condition information, the technician will demonstrate the ability to calculate the heat or cold stress index for operating personnel.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
3.4.4	Given a simulated hazardous materials incident and while operating in the roll of safety, EMS or rehab, the technician will identify the importance of appropriate rehabilitation efforts.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
3.4.5	The technician will identify the pre-entry medical considerations as outlined by the employer's emergency response plan and operational procedures.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
3.4.6	Given a simulated incident or tabletop scenario with an onsite emergency involving a significant exposure of an emergency responder, the technician will demonstrate an understanding of the necessary decontamination, emergency medical care and follow-up medical procedures as identified by the employer's emergency response plan.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)

# COMPETENCY CHECKLIST PROTECTIVE MEASURES

AREA 3.4 PROTECTIVE MEASURES – MEDICAL	
<b>No.</b>	<b>Requirement</b>
3.4.7	Given a simulated onsite medical emergency involving either a responder or victim, the technician will demonstrate the ability to provide appropriate emergency medical aid to the level of care identified by the employer's emergency response plan.
	<p style="text-align: right;">_____ (Signature)                      <u>  /  /  </u> (Date)</p>
<b>Evaluator Remarks</b>	
	<p style="text-align: right;">_____ (Signature)                      <u>  /  /  </u> (Date)</p>

# COMPETENCY CHECKLIST ACTION OPTIONS

Technician: \_\_\_\_\_

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

A combination of simulated incidents and tabletop activities with necessary supporting media can be used to demonstrate action option competencies.

<b>AREA 4.1 ACTION OPTIONS – INCIDENT SAFETY</b>		
<b>No.</b>	<b>Requirement</b>	
4.1.1	Given a simulated transportation and fixed facility incident, identify potential strategic control strategies for the incident.	_____ (Signature) <span style="float: right; margin-left: 100px;">             ____/____/____              (Date)           </span>
4.1.2	Given simulated incidents in transport and fixed facilities and while serving in a safety role, participate in a planning session that identifies possible intervention/non-intervention, defensive and offensive action options.	_____ (Signature) <span style="float: right; margin-left: 100px;">             ____/____/____              (Date)           </span>
4.1.3	Given a simulated transportation or fixed facility incident and while serving as “HazMat Group Safety”, develop a site specific safety plan in accordance with the employer’s emergency response plan. The plan shall identify all foreseeable incident hazards and recommendations for feasible corrective actions.	_____ (Signature) <span style="float: right; margin-left: 100px;">             ____/____/____              (Date)           </span>
4.1.4	The technician, given a simulated hazardous materials incident (both table top and field simulation), will demonstrate the ability to develop an incident safety plan that is consistent with the employer’s emergency response plan, operational procedures and information gained during the hazard/risk assessment phase of the incident.	_____ (Signature) <span style="float: right; margin-left: 100px;">             ____/____/____              (Date)           </span>
4.1.5	Given a simulated hazardous materials incident and while serving as “HazMat Group Safety”, the technician will communicate to the incident commander or the overall incident safety officer the safety considerations for inclusion in the overall incident plan of action.	_____ (Signature) <span style="float: right; margin-left: 100px;">             ____/____/____              (Date)           </span>
4.1.6	Given a simulated hazardous materials incident and while serving as “HazMat Group Safety”, demonstrate the ability provide an onsite safety briefing.	_____ (Signature) <span style="float: right; margin-left: 100px;">             ____/____/____              (Date)           </span>

# COMPETENCY CHECKLIST ACTION OPTIONS

<b>AREA 4.1 ACTION OPTIONS – INCIDENT SAFETY</b>		
<b>No.</b>	<b>Requirement</b>	
4.1.7	Given a simulated hazardous materials incident and while serving as “HazMat Group Safety”, the technician will identify those pre-entry activities that must take place to insure responder safety.	<div style="display: flex; justify-content: space-between; width: 100%;"> <div style="border-top: 1px solid black; width: 60%; margin-bottom: 5px;"></div> <div style="border-top: 1px solid black; width: 20%; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>(Signature)</span> <span>(Date)</span> </div>
4.1.8	The technician, serving as “HazMat Group Safety” during a simulated incident, will demonstrate the ability to monitor the incident for operations that are consistent with the plan of action and the incident safety plan.	<div style="display: flex; justify-content: space-between; width: 100%;"> <div style="border-top: 1px solid black; width: 60%; margin-bottom: 5px;"></div> <div style="border-top: 1px solid black; width: 20%; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>(Signature)</span> <span>(Date)</span> </div>
4.1.9	The technician, while serving as “HazMat Group Safety” will demonstrate the ability to appropriately suspend, alter or terminate operations as necessary due to unsafe conditions or practices and to notify command of any such actions.	<div style="display: flex; justify-content: space-between; width: 100%;"> <div style="border-top: 1px solid black; width: 60%; margin-bottom: 5px;"></div> <div style="border-top: 1px solid black; width: 20%; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>(Signature)</span> <span>(Date)</span> </div>
4.1.10	Given a simulated hazardous materials incident and while serving as “HazMat Group Safety”, the technician will insure that an appropriate hazard communication briefing is provided to all potentially exposed responders prior to leaving the scene.	<div style="display: flex; justify-content: space-between; width: 100%;"> <div style="border-top: 1px solid black; width: 60%; margin-bottom: 5px;"></div> <div style="border-top: 1px solid black; width: 20%; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>(Signature)</span> <span>(Date)</span> </div>
<b>Evaluator Remarks</b>		
		<div style="display: flex; justify-content: space-between; width: 100%;"> <div style="border-top: 1px solid black; width: 60%; margin-bottom: 5px;"></div> <div style="border-top: 1px solid black; width: 20%; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: space-between; width: 100%; font-size: small;"> <span>(Signature)</span> <span>(Date)</span> </div>

# COMPETENCY CHECKLIST ACTION OPTIONS

Technician: \_\_\_\_\_

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

Action option competencies should be assessed during field evolutions involving simulated hazardous materials emergencies.

<b>AREA 4.2 ACTION OPTIONS – SPILL CONTROL</b>		
<b>No.</b>	<b>Requirement</b>	
4.2.1	Given an incident involving a flowing liquid spill, demonstrate the ability to perform an assessment of the spill to the extent necessary to develop a spill control plan.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
4.2.2	Given a simulated hazardous materials incident involving a release of materials from both bulk and non-bulk containers, demonstrate the ability to develop a spill control plan and identify which spill control activities are defensive in nature and which spill control measures would be considered offensive in nature.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
4.2.3	Given a simulated hazardous materials incident involving a release from bulk and non-bulk containers, demonstrate the ability to properly select the necessary tools, equipment and personnel to perform defensive and offensive spill control activities.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
4.2.4	Given a simulated hazardous materials incident involving a spill, demonstrate the ability to supervise an operational level team in the performance of defensive spill control measures.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)
4.2.5	Given a simulated hazardous materials incident, a spill control plan and proper PPE, demonstrate the ability to perform offensive spill control procedures where direct contact with the product would be anticipated.	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border-top: 1px solid black; width: 80%;"></div> <div style="text-align: center;">/ /</div> </div> (Signature) (Date)

# COMPETENCY CHECKLIST ACTION OPTIONS

<b>AREA 4.2 ACTION OPTIONS – SPILL CONTROL</b>	
<b>No.</b>	<b>Requirement</b>
4.2.6	Demonstrate the ability to perform the following spill control measures: <ul style="list-style-type: none"> <li>a) Dam, dike, divert and retain a liquid/surface and liquid/water spill.</li> <li>b) Properly apply a curtain boom and oiliophilic boom to a liquid/water spill.</li> <li>c) Construct an underflow damn and overflow dam.</li> <li>d) Blanket a liquid or solid/surface spill.</li> <li>e) Ventilate and disperse or enter into an aqueous solution a gas/air spill.</li> </ul>
	_____ (Signature) <span style="margin-left: 100px;">_____/_____/_____ (Date)</span>
4.2.7	Given a simulated spill and spill control materials provided by the employer, demonstrate the ability to properly apply those materials in a manner consistent with both manufacturer recommendations and the employer's response plan.
	_____ (Signature) <span style="margin-left: 100px;">_____/_____/_____ (Date)</span>
<b>Evaluator Remarks</b>	
	_____ (Signature) <span style="margin-left: 100px;">_____/_____/_____ (Date)</span>



# COMPETENCY CHECKLIST ACTION OPTIONS

Technician: \_\_\_\_\_

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

Action option competencies should be assessed during field evolutions involving simulated hazardous materials emergencies.

<b>AREA 4.3 ACTION OPTIONS – LEAK CONTROL</b>		
<b>No.</b>	<b>Requirement</b>	
4.3.1	Given an incident involving leaks from both bulk and non-bulk containers develop a leak control plan to include appropriate safety precautions for leak control personnel.	_____ (Signature)
		____/____/____ (Date)
4.3.2	Given a simulated hazardous materials incident involving a leak(s) from bulk and non-bulk containers, demonstrate the ability to properly select the necessary tools, materials and equipment to perform offensive leak control activities.	_____ (Signature)
		____/____/____ (Date)
4.3.3	Given a pressure vessel, select the appropriate tools and equipment and demonstrate the ability to perform control activities for leaks from: <ul style="list-style-type: none"> <li>a) Open valves, missing or loose plugs</li> <li>b) Fusible plug (metal and threads).</li> <li>c) Side wall of container</li> <li>d) Valve blowout, gland, inlet threads and seat</li> <li>e) Valve stem assembly blowout</li> </ul>	_____ (Signature)
		____/____/____ (Date)
4.3.4	Given a leaking 55 gallon drum, demonstrate the ability to control the following types of leaks: <ul style="list-style-type: none"> <li>a) Bung or chime leak</li> <li>b) Forklift and nail punctures</li> </ul>	_____ (Signature)
		____/____/____ (Date)
4.3.5	Given a leaking 55 gallon drum, demonstrate the ability to safely perform the following over-packs: <ul style="list-style-type: none"> <li>a) Rolling slide-in</li> <li>b) Slide-in</li> <li>c) Slip-over</li> </ul>	_____ (Signature)
		____/____/____ (Date)
4.3.6	Given a leak from the dome of a MC306/DOT406, demonstrate the ability to properly apply a dome clamp.	_____ (Signature)
		____/____/____ (Date)
4.3.7	Demonstrate the ability to properly stabilize, bond and ground a container prior to operations or product transfer.	_____ (Signature)
		____/____/____ (Date)

# COMPETENCY CHECKLIST ACTION OPTIONS

<b>AREA 4.3 ACTION OPTIONS – LEAK CONTROL</b>		
<b>No.</b>	<b>Requirement</b>	
4.3.8	Identify common methods for product transfers involving MC306/DOT406, MC307/DOT407, MC312/DOT412, MC331 and MC338 cargo tanks.	_____ (Signature) <u>  /  /  </u> (Date)
4.3.9	Demonstrate the ability to properly use any product transfer equipment provided by the employer in accordance with the employers emergency response plan and the manufacturer's recommendations.	_____ (Signature) <u>  /  /  </u> (Date)
4.3.10	Demonstrate the ability to control each of the following leak types: <ul style="list-style-type: none"> <li>a) Dome cover leak</li> <li>b) Irregular shaped hole</li> <li>c) Puncture</li> <li>d) Split or tear</li> </ul>	_____ (Signature) <u>  /  /  </u> (Date)
4.3.11	Demonstrate an understanding of and the ability to apply the safety precautions necessary for product transfer operations.	_____ (Signature) <u>  /  /  </u> (Date)
<b>Evaluator Remarks</b>		
		_____ (Signature) <u>  /  /  </u> (Date)

# COMPETENCY CHECKLIST ACTION OPTIONS

Technician: \_\_\_\_\_

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

Action option competencies should be assessed during field evolutions involving simulated hazardous materials emergencies.

<b>AREA 4.4 ACTION OPTIONS – FIRE CONTROL</b>		
<b>No.</b>	<b>Requirement</b>	
4.4.1	Demonstrate the ability to obtain product fire control information from at least three references.	_____ (Signature)
		____/____/____ (Date)
4.4.2	Given a hazardous materials incident involving fire or potential for fire, demonstrate the ability to develop a fire prevent/control plan.	_____ (Signature)
		____/____/____ (Date)
4.4.3	Demonstrate the ability to control ignition sources (including static electric sources) at an incident involving flammable/combustible liquids and gases.	_____ (Signature)
		____/____/____ (Date)
4.4.4	Given a two dimensional flowing fuel fire, demonstrate the ability to calculate the square footage fire area.	_____ (Signature)
		____/____/____ (Date)
4.4.5	Given a two dimensional liquid fire involving spilled product flowing and/or a open container fire (i.e. open floating roof tank) and manufacturer data for the foam(s) provided for use by the employer, the technician will demonstrate the ability to properly calculate the appropriate application rates for fire control operations.	_____ (Signature)
		____/____/____ (Date)
<b>Evaluator Remarks</b>		
		_____ (Signature)
		____/____/____ (Date)

# COMPETENCY CHECKLIST ACTION OPTIONS

# COMPETENCY CHECKLIST INCIDENT TERMINATION

Technician: \_\_\_\_\_

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

<b>AREA 5.1 INCIDENT TERMINATION – TERMINATION AND DOCUMENTATION</b>		
<b>No.</b>	<b>Requirement</b>	
5.1.1	Given various simulated or actual incidents, participate in an on-scene incident debriefing and incident critique.	_____ (Signature)
		____/____/____ (Date)
5.1.2	During participation in the debriefing and critique, provide information concerning operational observations and activities taken at the incident.	_____ (Signature)
		____/____/____ (Date)
5.1.3	Demonstrate the ability to properly complete incident documentation reports as required by the employer’s emergency response plan and operational procedures.	_____ (Signature)
		____/____/____ (Date)
5.1.4	Demonstrate the ability to properly complete post incident exposure documentation as required by the employer’s emergency response plan.	_____ (Signature)
		____/____/____ (Date)
5.1.5	Demonstrate the ability to properly document equipment and PPE use in accordance with manufacturer recommendations and the employer’s emergency response plan.	_____ (Signature)
		____/____/____ (Date)
<b>Evaluator Remarks</b>		
		_____ (Signature)
		____/____/____ (Date)

# COMPETENCY CHECKLIST INCIDENT TERMINATION