



# Hazardous Materials Technician National Certification

## Certification Preparation Guide

Referenced to:

NFPA 1072, Chapter 7, 2017 Edition

Referenced to:

NFPA 1072, Chapter 7, 2017 Edition

Copies of this document may be downloaded from: <https://kupce.ku.edu/kufire-firefighter-certification>

This Study Guide is provided at no cost to the user by the Kansas Fire & Rescue Training Institute as a service to the firefighters of Kansas.

Copyright © by the Kansas Fire & Rescue Training Institute, University of Kansas. This document is provided for use under the following provisions:

1. Duplication is permitted if the document is duplicated in its entirety, including cover, without editorial changes.
2. No other cover or information is attached as part of the document.



Dear Certification Candidate,

Welcome to the National Firefighter Certification Program!

The Kansas Fire & Rescue Training Institute is accredited by the International Fire Service Accreditation Congress (IFSAC) and by the National Board on Fire Service Professional Qualifications (NBFSPQ - also known as “Pro Board”). These accreditation agencies establish rules and standards to follow in the administration, recordkeeping, and providing of National Certification for the fire service. Through this accreditation, Kansas Fire & Rescue Training Institute is authorized to issue accredited National Certifications to individuals meeting the requirements of selected national standards.

Kansas Fire & Rescue Training Institute’s role in the process is to maintain testing materials and a fair system of administering certification exams.

This National Certification Preparation Guide was specifically designed to help you prepare for the examination process ahead. This guide gives reading references for the written exam and the skills exam. By using this guide, you will be looking at the same pages the test writer was looking at when they wrote the test questions and developed the skills evaluation sheets.

Our Coordinators and Evaluators are here to observe your skills and knowledge – they will not help you pass the test.

Our staff and evaluators will treat you with respect and professionalism. Our goal is that you complete the testing process with satisfactory performance and earn your National Certification.

Good luck,

*KFRTI Staff*

## **National Certification**

National Certification is a professional credential that verifies your proficiency in the level to which you were/are certified. Kansas certifications do not expire. If you are moving to another state, you should contact the certification entity in that state to find out if your National Certification from Kansas is recognized in that state.

### **Certification Program Mission**

This mission of the National Certification Program is to maintain an accredited system for Kansas fire service members to earn National Fire Service Certification professional credentials.

### **Certification Program Values and Principles**

In the conduct of this program, the Kansas Fire & Rescue Training Institute uses the values listed below to guide our professional conduct; they form the foundations and parameters of this program.

- ✘ We hold in high regard honesty and integrity in ourselves and those we serve.
- ✘ Kindness and professionalism guide our instructors and our evaluators.
- ✘ We respect the fire and emergency service and those who serve in it.
- ✘ Transparency of our system, processes, and policies is paramount.
- ✘ The certification standards drive fair evaluation and testing.
- ✘ We value our role as the provider and protector of the national certification program's credibility.

### **Academic Integrity**

We hold staff (including part-time) and certification candidates to identical ethical standards. We expect professional behavior at all times. Any incident of academic misconduct by a candidate, will invalidate their test results, forfeit their certification fee, and may subject them to suspension from the certification process for one year.

Academic misconduct includes cheating, plagiarism, falsification of records, unauthorized possession of examinations, intimidation, and/or other actions that may improperly affect the evaluation of a candidate or assisting others in any such act.

Our policy on academic misconduct is that of "zero tolerance."

*The University of Kansas prohibits discrimination. Specifically, the University of Kansas prohibits discrimination on the basis of race, color, ethnicity, religion, sex, national origin, age, ancestry, disability, status as a veteran, sexual orientation, marital status, parental status, gender identity, gender expression, and genetic information in the University's programs and activities. Retaliation is also prohibited by University policy.*

## How to Use the Certification Preparation Guide

This National Certification Preparation Guide is specifically designed to help you prepare for the examination process ahead. This guide provides reading references for the written exam and the skills exam.

We have included information in this guide that will help you achieve the professional credential that is Fire Service National Certification. There are a few key elements in preparing for the National Certification Exam. They are: 1) Take some time between the end of your course and the certification exam to focus on studying for the exam. 2) Use this Preparation Guide to help focus on the requirements of the National Standard and your study time.

### **STEP 1:     *Review the Administrative information in front of this Preparation Guide.***

- ✘ We have included some important information about the program and the steps of certification. Please take a few minutes and review these pages.

### **STEP 2:     *Review the Reading Reference Pages***

The Reading Reference pages are arranged by Job Performance Requirements (JPRs), which are determined by the correlating NFPA standard.

- ✘ Read and study the pages listed in the written exam reading pages.
- ✘ By reading these pages, you are reading the same pages the test developer was when they were writing test questions.

### **STEP 3:     *Review the Skill Evaluation Sheets in this Certification Guide.***

- ✘ Take note of the Instructions to the Candidate (grey boxes) on each Skill Sheet. These are the instructions that the evaluator will give to you in each station before you test.
- ✘ Skills sheet references take you back to the reference manual to explain the skill. You will be graded only on those items listed on the skill evaluation sheets. Use these in your practice and exam preparations.

### **STEP 4:     *Read & Review, Read & Review, Read & Review, and Practice, Practice, Practice!***

- ✘ Don't practice until you do it right; practice until you can't do it wrong!

### **STEP 5:     *Get a good night's rest before the exam.***

- ✘ You can be tired in any of three ways: Mentally, Physically, and Emotionally. If you are tired in any of these ways, it will make you tired in ALL of them.
- ✘ Save the party for after the exam....get a good night's rest....eat a good breakfast (if you test in the morning)...easy on the sugar and caffeine...and relax!

**GOOD LUCK!**

*Note:*

*If you are exploring National Certification and haven't taken a course specifically for the level of certification you are seeking, we STRONGLY suggest that you start the process by taking a course. Under certain circumstances, you may challenge some certification exams. Persons who take a course first do much better on the exam. Contact the Kansas Fire & Rescue Training Institute for more information.*

## National Certification Application & Processes

<b>Application:</b>	Applications are required before testing. Visit the KFRTI web page ( <a href="https://kupce.ku.edu/kufire-firefighter-certification">https://kupce.ku.edu/kufire-firefighter-certification</a> ) to download the application.
<b>Registration for Exams:</b>	Pre-registration is required. Go to the KFRTI online registration point to register and pay certification fee. ( <a href="https://www.enrole.com/kupce/jsp/index.jsp?categoryId=10019">https://www.enrole.com/kupce/jsp/index.jsp?categoryId=10019</a> )
<b>Certification Fees:</b>	Certification fees must be paid before the exam date. Individuals are required to pay fees online when registering for an exam. An organization may request to be billed, this billing process requires a Purchase Order from that organization stating each candidate's name. To arrange billing, call the KFRTI at 1-866-804-8841. Billing cannot be processed online.
<b>Number of Attempts:</b>	Candidates are allowed two attempts per test per application, and all testing must be completed within one year of the first successful testing activity. Additional testing requires a new application and fee.
<b>Picture I.D. Required:</b>	A government issued photo I.D. is required at the test site.
<b>Accommodations:</b>	The Kansas Fire and Rescue Training Institute as part of the University of Kansas adheres to the requirements of the Americans with Disabilities Act. Certification candidates requesting accommodations must submit the request in writing two (2) weeks in advanced of testing. The request must include a copy of the diagnosis by a qualified professional. Upon receipt of an accommodations request, the Kansas Fire and Rescue Training Institute will review the request, and then notify the requestor of the proposed accommodations.

### What if I Fail the Exam?

Failure of any required component (not submitting a currently valid prerequisite, less than 70% on the written exam or less than 100% of the skills exam) constitutes a failed attempt.

- a. Candidates may re-test on any component of the exam (written, or skills exams) and resubmit current prerequisite.
- b. Candidates must register to take a retest at another test site. No walk-in testing is allowed. To register for a retest, call the Institute at (toll free) 866-804-8841.
- c. Candidates are allowed two (2) attempts at any portion of the exam. If a candidate fails any portion of the exam twice, a new application and fee is required. T
- d. The Institute strongly recommends that candidates study or seek additional training before attempting the exam for a third attempt.

### Time to Complete Certification

Candidates have one year from the date of their first successful testing action to complete their certification. Retaking the written test, retesting skills, submitting verification forms, and all other requirements must be completed within that year. Failure to complete the certification within that year will invalidate all previous testing. The candidate will be required to submit a new application, new fee, and new verification forms retest for the written and skills tests before certification.

***Hazardous Materials Technician - Written Exam  
Study/Preparation Information and Materials***

**Haz Mat Technician Written Exam:** 50 multiple choice questions.

**Time allowed to take exam:** Two (2) hours.

**Passing Score:** 70% (or higher)

Answer sheets and pencils are provided. "Bubble Sheet" answer sheets that candidates fill in small circles to indicate answer a, b, c, d, or e as the correct answer are used.

No cell phones, radios, or other electronic devices are allowed in the room while an exam is being administered (an exception for radios that allow "on-duty" personnel to receive alarms may be granted under special circumstances).

**Reading Reference/Text**

The Hazardous Materials Technician exam is referenced to the IFSTA, *Hazardous Materials Technician*, 2nd Edition

National Standard test is based on: *NFPA 1072 Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications*, 2017 Edition.

---

**Written Exam Study Pages**  
**(Test questions are taken from these same pages)**

---

Reading/Study Pages:

All Corresponding pages can be found on Page 560 of IFSTA, Hazardous  
Materials Technician, 2nd Edition

---



***Hazardous Materials Technician Skills Exam  
Study/Preparation Information and Materials***

**Introduction to Hazardous  
Material Technician Exam:**

The Skills Exam includes 28 skills and requires 100% to pass.

**Time allowed to take exam:**

The overall exam is not timed; however individual skills and/or stations may include a maximum/minimum time.

**Passing Score:**

100% on all stations and skills. You will be given two attempts within each station (if you need them). The skills exams require 100% on all stations and skills. Up to two attempts will be given for each skill and/or station being tested. These two attempts make up your first attempt at the skills exam.

No cell phones, radios or other electronic devices are allowed in the room while an exam is being administered (an exception for radios that allow “on-duty” personnel to receive alarms may be granted under special circumstances).

**Reading Reference/Text**

The Hazardous Materials Technician exam is referenced to the IFSTA, Hazardous Materials Technician, 2nd Edition

National Standard test is based on *NFPA 1072 Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 2017 Edition*

## Hazardous Materials Technician Skill Evaluation Sheets

This Skills Evaluation Sheet is the exact grading sheets that evaluators use during the Skills Test. This sheet has been edited for the explicit use of grading skills and should not be used to learn the skills.

This Skill Evaluation Sheet has been included in this Preparation Guide for the purpose of guiding you as final preparations are made (and practice performed) for the Qualification Exam.

Grading for the Skills Evaluation requires 100% of the steps listed on the sheet be performed. You will not be evaluated on steps of the skills that are not listed on these evaluation sheets.



## Hazardous Material Technician: Develop a Hazardous Material Site Safety Plan

### Item 1

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.5, 7.3.1, 7.3.4, 7.4.1, 7.5.1

**Evaluator Equipment Required:** A Hazardous Materials Scenario, ICS 208 HM Form, notepad and pen.

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

#### Evaluator's Instructions to Candidates

At this station, you will be given a hazardous materials scenario. Using the ICS 208 HM form, you will develop a site safety and control plan.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 7 of the 10 steps.

#### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Identify tasks and resources required to meet response objectives.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Address specified response objectives and options.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Ensure plan is consistent with emergency response plan and policies and procedures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Ensure plan is within the capability of available resources, including personnel.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Prepare an incident action plan.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Identify site safety and control components.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Identify points for a safety briefing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Identify pre-entry tasks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Identify atmospheric and physical safety hazards (when confined space is involved).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Collect and preserve any legal evidence.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 7

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):

<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) Name: PPE Level		18. Decontamination Element: Name: PPE Level										
Entry 1		Decon 1										
Entry 2		Decon 2										
Entry 3		Decon 3										
Entry 4		Decon 4										
<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.



## **Hazardous Material Technician: Use approved reference resources to interpret hazard and response information.**

**Item 2**

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.2, 7.2.5, 7.4.1

**Evaluator Equipment Required:** A Hazardous Materials scenario, an assignment in an IAP, and approved reference resources.

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### **Evaluator's Instructions to Candidates**

At this station, you will be given a hazardous materials scenario, an assignment in an IAP, and approved reference resources to interpret the hazards and response information.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations. To pass this station you must successfully complete all critical steps and a minimum of 4 of the 10 steps.

### **Evaluated Skill Items**

1. Collect hazard and response information.
2. Interpret hazard and response information.
3. Identify signs and symptoms of exposures (including target organ effects).
4. Determine radiation exposure rates from containers.
5. Communicate hazard and response information.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 4

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## **Hazardous Material Technician: Collect samples of a hazardous material solid, liquid, or gas.**

**Item 3**

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.1, 7.2.2

**Evaluator Equipment Required:** Appropriate PPE. Materials to be sampled. Chain of Custody forms. Sample kit.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### **Evaluator's Instructions to Candidates**

At this station, you will collect samples of a hazardous material solid, liquid, or gas for evidence preservation and public sampling.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 4 of the 4 steps.

### **Evaluated Skill Items**

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Develop appropriate sampling collection plan for hazard identification.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure any materials and equipment used for collection are "clean" or "sterile" and kept sealed until used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Collect the solid, liquid, and/or gas samples in the appropriate containers as per AHJ SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Follow all chain-of-custody procedures established by the AHJ.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 4

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):





## Hazardous Material Technician: Field Screening

### Item 4

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.1, 7.2.2, 7.2.4, 7.5.1

**Evaluator Equipment Required:** Field Screening Kit and Data sheet.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

#### Evaluator's Instructions to Candidates

At this station, using a field screening kit and using the field screening data sheet you will classify 3 unknown solid and 3 unknown liquid samples to determine the hazards.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 3 of the 3 steps.

#### Evaluated Skill Items

1. **C** Correctly classifies 2 of the 3 solid samples
2. **C** Correctly classifies 2 of the 3 liquid samples.
3. **C** Correctly completes field screening data sheet.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 3 (ALL)

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):

# Field Screening Data Summary Sheet

[illegible]



## **Hazardous Material Technician: Perform maintenance and testing on monitoring equipment, test strips, and reagents.**

**Item 5**

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.4.3.2, 7.4.3.3

**Evaluator Equipment Required:** Maintenance equipment such as calibration gases or other necessary items.  
Monitoring equipment, test strips, and reagents. Manufacturer's operator's manual.  
Equipment maintenance log/forms.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### **Evaluator's Instructions to Candidates**

At this station, you will perform routine maintenance and testing on various types of monitoring equipment, test strips, and reagents.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 3 of the 4 steps.

### **Evaluated Skill Items**

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Identify the device or item that requires testing or maintenance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Perform testing and/or maintenance as identified in the manufacturer's instructions and AHJ SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. <b>C</b> Properly Calibrates CGI and PID per manufactures instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Properly document any maintenance or testing performed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 3

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Monitoring Operations

### Item 6

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.4.3.4, 7.5.1

**Evaluator Equipment Required:** Three (3) small plastic containers with lids. A sample of a VOC, a flammable liquid and an acid. A five (5) gas monitor equipped with a PID and pH paper. PPE as required.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

#### Evaluator's Instructions to Candidates

At this station, you will Identify a VOC, a Flammable liquid and an acid using a 5 gas monitor and pH paper, given 3 unmarked containers will use the 5 gas monitor and pH paper.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 3 of the 4 steps.

#### Evaluated Skill Items

1. Turns on monitor, fresh air calibrate and bump test.
2. **C** Uses pH paper on all 3 samples and identifies the acid first.
3. Uses 5 gas monitor to identify the VOC
4. Uses 5 gas monitor to identify flammable liquid

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 3

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.1

**Evaluator Equipment Required:** Appropriate personal protective equipment (PPE). Manufacturer's operator's manual. Product to be tested. Appropriate colorimetric indicator kit. Appropriate container for disposal.

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, you will demonstrate the proper use of colorimetric tubes to identify hazards.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 7 of the 10 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure proper detection, monitoring, or sampling method and equipment is chosen.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders are wearing appropriate PPE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. <b>C</b> Use the manufacturer's instruction manual to select the proper colorimetric tube for sampling and check expiration dates for the tube.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Perform a functional test to check device per manufacturer's instructions to ensure correct operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Reset the counter.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Properly break both ends of the tube(s) using the provided tube cutter.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Insert the tube into the hand pump in the proper direction.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. <b>C</b> Hold the tip of the tube an appropriate distance away from the product or container opening, taking care not to come into contact with any solid or liquid product.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Sample the product based on manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Remove the tube from the pump and read, interpret, and record the results per manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 7

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: pH and Reagent Test Paper

Item 8

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.1

**Evaluator Equipment Required:** pH paper with color scale. Reagent test paper. Product to be tested. Manufacturer's instructions. Appropriate tool to hold and secure pH paper. Appropriate container for disposal. Water and HCl or other needed wetting agents.

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, you will demonstrate proper use of pH and reagent test paper.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 6 of the 9 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure proper detection, monitoring, or sampling method and equipment is chosen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Inspect the paper to ensure it has not been exposed or expired	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Remove a piece of appropriate size pH paper or reagent strip/paper from the roll or remove strip from the container and secure the paper.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Sample the product.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Compare results to pH paper color scale to determine if the product is an acid, a base, or neutral. Record results. Identify any color changes to the reagent test paper and compare them with the provided reference.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Report results according to AHJ's procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Insert the tube into the hand pump in the proper direction.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Decontaminate equipment and return to operational state per manufacturer's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Complete required reports and supporting documentation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 6

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Radiation Detection

Item 9

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.1, 7.2.2

**Evaluator Equipment Required:** Radiation check source. Radiation detection instrument(s). Product to be tested. Manufacturer's operator's manual.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, you will demonstrate proper use of radiation detection instruments to identify and monitor hazards.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 7 of the 10 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Select the appropriate monitor for the potential hazard(s).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Perform initial inspection to ensure device is serviceable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. <b>C</b> Ensure that the monitor has been maintained and appropriately calibrated according to AHJ's SOPs and manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Turn on the meter and test detector against check source.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. <b>C</b> Acquire background radiation levels.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Properly monitor the area per AHJ's requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Determine the presence of ionizing radiation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Compare radiation values to AHJ's SOPs. Record results.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. <b>C</b> Report results according to AHJ's requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. When monitoring is complete, turn off the instrument.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 7

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Radiation Dosimeter

Item 10

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.1, 7.2.2

**Evaluator Equipment Required:** Sample documentation forms. Manufacturer's operator's manual. Dosimeter(s).

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, you will demonstrate proper use of radiation detection instruments to identify and monitor hazards.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 6 of the 9 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Perform initial inspection to ensure device is serviceable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure the dosimeter is properly calibrated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Ensure the dosimeter reads zero.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Don the dosimeter per manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Perform mission activity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Doff the dosimeter.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Follow manufacturer's instructions and AHJ's procedures regarding dosimeter analysis.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Report results per AHJ's procedures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Complete required reports and supporting documentation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 6

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## EMERGENCY WORKER CHECKLIST

Before beginning your assignment check and make sure you have the following:

- ☐ Dosimeter (Low Range)  
Any scale up to 2R (2000mR)
- ☐ Dosimeter (Mid Range)  
Any scale from 2R to 20R
- ☐ Permanent Record Dosimeter
- ☐ Individual Dose Record Card

Record reading at least once an hour

Recharge dosimeter when it reaches  $\frac{3}{4}$  scale.

### IMPORTANT:

Notify your supervisor immediately if:

1. Your dosimeter hairline has gone off-scale or is not visible.
2. You have reached your exposure limits:  
  

**500 mR**  
**1 R**

call-in limit  
(Call your supervisor)

(1000 mR) turn-back limit  
(Leave area, call supervisor)

## POTASSIUM IODIDE (KI)

The State Radiological Assessment Manger (SRAM) makes the recommendation for KI ingestion for State and local emergency workers. Coffey County Radiological Officer notifies Coffey County emergency workers of this decision.

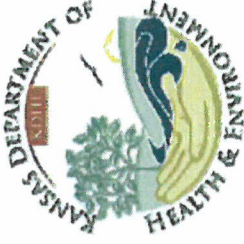
### INGESTION IS VOLUNTARY

Those who elect to take KI need to fill out the "Potassium Iodide Issue record" form.

Potassium Iodide (KI) is used in certain situations to protect the thyroid gland from absorbing radioactive iodine. If taken before or within an hour of exposure to radioactive iodine, KI can block about 90 percent of radioactive iodine from being absorbed by the thyroid gland.

The dosage for emergency workers is one tablet of KI (130 mg) once a day for the duration of exposure and following the exposure for a maximum of 10 days total.

## RADIOLOGICAL EMERGENCY WORKER



### INDIVIDUAL DOSE RECORD

Please Print

Name

Organization

Work Phone Number

Date and Time

### DOSIMETRY SERIAL NUMBER:

Low Range

Mid Range

Permanent Record Dosimeter  
(Serial Number)

Prepared by:  
Kansas Department of Health & Environment

Typical Graduated Scale  
(Enlarged view)

**TO READ:**

Read dosimeter and record position of hairline every hour, unless otherwise directed by the Radiological Officer.

This badge will provide an accurate and permanent record of any exposure. Wear it at all times, between your waist and shoulders, during your assignment.

**Low Range (any scale up to 2R or 2000mR)**

[illegible]

Be careful not to bump or drop any direct reading dosimeter as this may cause a false reading. If such an accident occurs, read your dosimeter immediately and report any change to your supervisor.

[illegible]

The diagram illustrates the penetration of three types of ionizing radiation through different materials. Alpha particles, represented by a cluster of blue spheres, are stopped by a sheet of white paper. Beta particles, represented by a small red sphere, pass through the paper but are stopped by a thin sheet of brown aluminum. Gamma rays, represented by a green wavy line, pass through both the paper and the aluminum but are stopped by a thick block of grey lead.



**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.1

**Evaluator Equipment Required:** Sample chemicals, Photoionization Detector and Manufacturer's operator's manual.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, you will properly demonstrate the use of photoionization detectors to identify hazards.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 5 of the 6 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Perform initial inspection to ensure device is serviceable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Perform a "fresh air" calibration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Operate the device per manufacturer's instructions and AHJ's procedures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Properly monitor the area per AHJ's requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. <b>C</b> Identify correction factors and apply them as necessary.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Report results per AHJ's requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 5

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.1

**Evaluator Equipment Required:** Thermal Detector. Heat source or other target. Manufacturer's Operator manual.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, you will properly demonstrate the use of photoionization detectors to identify hazards.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 6 of the 7 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Perform initial inspection to ensure device is serviceable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Insert appropriate batteries and turn on the thermal detector. Select Celsius or Fahrenheit if applicable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Standing as close as safely possible, use the aiming laser to assess the target from the lowest point on the target and scan up slowly and methodically.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Record results.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. When monitoring is complete, turn off the device.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Return to proper storage per manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Complete required reports and supporting documentation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_  
Minimum Score required to pass 6

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Personal Protective Equipment - Item 13

### Level C Ensemble

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.1, 7.3.2, 7.4.2, 7.4.3.1, 7.4.3.2, 7.4.3.3, 7.4.3.4, 7.4.4.1, 7.4.4.2

**Evaluator Equipment Required:** Level C ensemble. Decontamination equipment. Respirator.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

#### Evaluator's Instructions to Candidates

At this station, you will don, work in, undergo decontamination while wearing, and doff a Level C ensemble.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 7 of the 10 steps.

#### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Perform a visual inspection of PPE for damage or defects.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Don Level C PPE and secure closures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Don work boots.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Don respirator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Don inner and outer protective gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Breathe through respirator and ensure that respirator is functioning properly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Perform work assignment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Undergo technical decontamination as per AHJ's SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Doff ensemble according to AHJ's SOPs, avoiding contact with outer ensemble or surfaces that may be contaminated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Conduct a post-entry inspection of PPE for damage or defects according to AHJ's SOPs and document findings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 7

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Personal Protective Equipment - Item 14

### Liquid splash-protective clothing

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.1, 7.3.2, 7.4.2, 7.4.3.1, 7.4.3.2, 7.4.3.3, 7.4.3.4, 7.4.4.1, 7.4.4.2

**Evaluator Equipment Required:** Liquid splash protective ensemble. Decontamination equipment. SCBA

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

#### Evaluator's Instructions to Candidates

At this station, you will don, work in, undergo decontamination while wearing, and doff liquid splash protective clothing.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 8 of the 11 steps.

#### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Perform a visual inspection of PPE and SCBA for damage or defects.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Don liquid-splash PPE and secure closures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Don work boots according to AHJ's SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Don SCBA according to AHJ's SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Pull ensemble hood up completely so that facepiece straps and skin are not exposed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Don protective headgear (if required by AHJ).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Don inner and outer protective gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Perform work assignment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Undergo technical decontamination as per AHJ's SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. To doff, remove PPE in reverse order of donning.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. <b>C</b> Ensure medical monitoring is performed as per AHJ's SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 8

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Personal Protective Equipment - Item 15

### Vapor-Protective Clothing

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.2.1, 7.3.2, 7.4.2, 7.4.3.1, 7.4.3.2, 7.4.3.3, 7.4.3.4, 7.4.4.1, 7.4.4.2

**Evaluator Equipment Required:** Vapor protective ensemble. Decontamination equipment. SCBA.

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

#### Evaluator's Instructions to Candidates

At this station, you will don, work in, undergo decontamination while wearing, and doff vapor-protective clothing.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 7 of the 10 steps.

#### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Perform a visual inspection of PPE and SCBA for damage or defects.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Remove shoes, belts, and any objects that could damage ensemble.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Don ensemble according to AHJ's SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Don the SCBA according to AHJ's SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Don protective headgear (if required by AHJ).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Don outer protective gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Perform work assignment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Undergo technical decontamination as per AHJ's SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. To doff, remove PPE in reverse order of donning.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 7

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):





# Hazardous Material Technician: Personal Protective Equipment - Inspect, Test, Maintain, and Document Serviceability

Item 16

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.3.2

**Evaluator Equipment Required:** Manufacturer's instructions. Manufacturer's pressure test kit. PPE maintenance log/forms. Compressed air source.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

## Evaluator's Instructions to Candidates

At this station, you will inspect, test, maintain, and document chemical protective clothing serviceability.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 7 of the 10 steps.

## Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure the suit's serviceability as per AHJ's SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Visually inspect both the interior and exterior of the suit looking for damage or defects.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Visually inspect the suit for any changes to the suit material.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Check to ensure the zipper functions correctly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Check the function of all valves and passthroughs if applicable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Test suit according to manufacturer's recommendations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Check and record pressure as per manufacturer's recommendations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Maintain suit according to manufacturer's recommendations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Document all findings during the inspection as per AHJ's requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Return to proper storage as per manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 7

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):





# Hazardous Material Technician: Decontamination of Ambulatory People

Item 17

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.3.3, 7.4.4.1

**Evaluator Equipment Required:** Appropriate personal protective equipment (PPE). Charged hose line with fog pattern nozzle. Secure container with lid to collect contaminated clothing. Appropriate monitoring/detection device Sponges, brushes.

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

## Evaluator's Instructions to Candidates

At this station, as a member of a team, you will perform mass decontamination on ambulatory people.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 7 of the 10 steps.

## Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure proper decontamination method has been chosen to minimize hazards.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that ,all responders are wearing appropriate PPE for performing mass decontamination operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Ensure the decontamination corridor provides privacy for victims.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Set fire nozzle to fog pattern.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Instruct all people to go through mass decontamination.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Instruct each person to move to a clean area to dry off.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Monitor for additional contamination using the appropriate detection device.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NOTE: If contamination is found, instruct each person to go through wash again, as appropriate.				
8. Inform EMS personnel of contaminant involved and its hazards, if known.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Ensure personnel, tools, and equipment are decontaminated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Complete required reports and supporting documentation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 7

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Decontamination of Non-Ambulatory People

Item 18

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.3.3, 7.4.4.1

**Evaluator Equipment Required:** Appropriate personal protective equipment (PPE). Charged hose line with fog pattern nozzle. Secure container with lid to collect contaminated clothing. Appropriate monitoring/detection device Sponges, brushes. Bags and tags for personal property or evidence. Backboard or litter.

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, as a member of a team, you will perform mass decontamination on non-ambulatory people.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 10 of the 14 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure proper decontamination method has been chosen to minimize hazards.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that ,all responders are wearing appropriate PPE for performing mass decontamination operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Ensure the decontamination corridor provides privacy for victims.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Establish an initial triage point to evaluate and direct victims.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Perform lifesaving intervention if necessary.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Transfer the victims to the non-ambulatory wash area of the decontamination station on an appropriate backboard/litter device.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Remove all clothing, jewelry, and personal belongings, and place in appropriate containers. Decontaminate as required and safeguard personal belongings and items. Use plastic bags with labels for identification.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Carefully undress non-ambulatory victims, and avoid spreading the contamination when undressing. Do not touch the outside of the clothing to the skin.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Completely wash each victim's entire body using handheld hoses, sponges, and/or brushes and then rinse following AHJ's SOPs for safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Transfer the victims from the wash and rinse stations to a drying station after completing the decontamination process. Ensure that the victims are completely dry.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Monitor for additional contamination using the appropriate detection device. NOTE: If contamination is detected, repeat decontamination wash and/or change decontamination method as appropriate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Have on-scene medical personnel re-evaluate the victims' injuries.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Ensure personnel, tools, and equipment are decontaminated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Complete required reports and supporting documentation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 10

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

**Station:**      **Pass** ☐      **Fail** ☐

**Candidate name:** \_\_\_\_\_

**Candidate Signature:** \_\_\_\_\_

**Evaluator Name:** \_\_\_\_\_

**Evaluator Signature:** \_\_\_\_\_

Notes (Please include comments/explanation for failure):



# Hazardous Material Technician: Technical Decontamination of Ambulatory People

Item 19

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.3.3, 7.4.3.2, 7.4.3.3, 7.4.3.4, 7.4.4.1

**Evaluator Equipment Required:** Appropriate personal protective equipment {PPE}. Technical decontamination equipment. Appropriate monitoring/detection devices.

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

## Evaluator's Instructions to Candidates

At this station, as a member of a team, you will perform technical decontamination on ambulatory people.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 7 of the 9 steps.

## Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure proper decontamination method has been chosen to minimize hazards.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders are wearing appropriate PPE for performing technical decontamination operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Establish technical decontamination corridor for ambulatory decontamination according to the AHJ's SOPs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Instruct the person to undergo gross decontamination.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Instruct the person to undergo secondary decontamination wash. NOTE: Emergency responders undergoing technical decon will doff PPE per SOPs after the secondary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Monitor for additional contamination using the appropriate detection device. NOTE: If contamination is detected, repeat the decontamination sequence and/or change the decontamination method, as appropriate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Direct the person to the medical evaluation station.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Ensure personnel, tools, and equipment are decontaminated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Complete required reports and supporting documentation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 7

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.4.3.1

**Evaluator Equipment Required:** A hazardous material incident scenario with release of product. Policies and procedures for product control. Results of incident analysis. Response objectives and options. List of approved resources tools, equipment, control agents, and PPE.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, you will select appropriate product control techniques to mitigate a hazmat/WMD incident.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 2 of the 2 steps.

### Evaluated Skill Items

1. Select approved PPE.
2. Select approved product control technique.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 2

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Product Control - Patch or Plug a Leaking Container

Item 21

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.4.3.1, 7.4.3.2, 7.4.3.3, 7.4.3.4

**Evaluator Equipment Required:** Appropriate personal protective equipment (PPE). Appropriate tools. Plugging and patching materials. Container.

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, as a member of a team, you will plug and/or patch a leaking container.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 6 of the 8 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure proper product control technique is chosen.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders involved in the control function are wearing appropriate PPE for performing plugging operations and that appropriate hand tools have been selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Select a location to efficiently and safely perform the plugging/patching operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Avoid direct contact with the hazardous material to the extent possible.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Determine the location of the leak.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Attempt to position container so that the location of leak is in the uppermost position.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Use the proper tools and equipment to control and plug the leak.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Inspect and maintain tools and equipment as per local SOPs and manufacturer's recommendations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 6

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Product Control - Sleeve, Jacket, Clamp, or Wrap

Item 22

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.4.3.1, 7.4.3.4

**Evaluator Equipment Required:** Appropriate personal protective equipment (PPE). Appropriate tools. Sleeve, jacket, clamp or other wrap. Container or pipe rack

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, as a member of a team, you will apply a sleeve, jacket, clamp, or wrap to a leak.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 6 of the 7 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure proper product control technique is chosen.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders are wearing appropriate PPE for applying a sleeve, jacket, clamp or wrap to a leak and that appropriate hand tools have been selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Avoid direct contact with the hazardous material to the extent possible.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Determine the location of the leak.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Attempt to position container so that the location of leak is in the uppermost position.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Apply the sleeve, jacket, clamp or other wrap to control the leak.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Inspect and maintain tools and equipment as per local SOPs and manufacturer's recommendations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 6

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Product Control - Bond and Ground a Container

Item 23

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.4.3.1, 7.4.3.2, 7.4.3.4

**Evaluator Equipment Required:** Appropriate personal protective equipment (PPE). Appropriate tools. Bonding and grounding equipment. Four gas meter.

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, as a member of a team, you will apply a sleeve, jacket, clamp, or wrap to a leak.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 5 of the 5 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure proper product control technique is chosen.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders involved in the control function are wearing appropriate PPE for performing bonding and grounding operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Establish ground field.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Bond the containers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Ground the containers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 5

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):





# Hazardous Material Technician: Product Control - Pressurized Container Leak

Item 24

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.4.3.1, 7.4.3.2, 7.4.3.4

**Evaluator Equipment Required:** Appropriate personal protective equipment (PPE). Appropriate tools. Sleeve, jacket, clamp or other wrap. Container or pipe rack

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

## Evaluator's Instructions to Candidates

At this station, as a member of a team, you will apply appropriate leak control measures to stop the flow of product from a leaking pressurized container.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 6 of the 7 steps.

## Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure proper product control technique is chosen.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders are wearing appropriate PPE for applying a sleeve, jacket, clamp or wrap to a leak and that appropriate hand tools have been selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Avoid direct contact with the hazardous material to the extent possible.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Determine the location of the leak.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Attempt to position container so that the location of leak is in the uppermost position.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. <b>C</b> Control the leak.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Inspect and maintain tools and equipment as per local SOPs and manufacturer's recommendations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 6

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Product Control -Dome Clamp

Item 25

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.4.3.1, 7.4.3.2, 7.4.3.4

**Evaluator Equipment Required:** Adequate PPE, dome clamp, MC-306/DOT 406 simulator.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, as a member of a team, you shall demonstrate the ability to control liquid leaks on an MC-306/DOT 406 training dome by properly applying a dome clamp.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 4 of the 5 steps.

### Evaluated Skill Items

1. Identify tank capacity by using markings or other resources.
2. Identify precautions for fire control.
3. Approach simulator safely.
4. **C** Locate leaking dome and properly apply dome clamp.
5. Evaluate the effectiveness of control measure.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 4

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



# Hazardous Material Technician: Product Control - Overpacking and/or Radioactive Materials Packaging

Item 26

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.4.3.2, 7.4.3.3, 7.4.3.4

**Evaluator Equipment Required:** Adequate PPE, Container, Overpacking drum

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

## Evaluator's Instructions to Candidates

At this station, as a member of a team, you shall select appropriate PPE and equipment and will correctly overpack the container. Note: The slide-in, rolling slide-in, or slip-over methods should all be taught, however, only one needs to be tested.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 5 of the 6 steps.

## Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure proper product control technique is chosen.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders involved in the control function are wearing appropriate PPE for performing overpacking operations and that appropriate hand tools have been selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Avoid direct contact with the hazardous material to the extent possible, including residue on the patched container or package.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Place the damaged container or package in appropriate position using safe lifting techniques.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Properly overpack the damaged container or package.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Close, mark, and label the overpack container.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 5

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Product Control - Leaking Valves, Closures, Packing Glands, and/or Fittings

Item 27

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.4.3.2, 7.4.3.3, 7.4.3.4

**Evaluator Equipment Required:** Appropriate PPE, a hazardous materials scenario, a container prop with either a leaking valve, closure, packing gland, or fitting.

**Critical Skills:** Critical Skills are identified by a bold type "C". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, as a member of a team, you shall select appropriate PPE, tools and equipment and will correctly tighten or close the object given in the scenario.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 5 of the 6 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Ensure that all responders involved in the control function are wearing appropriate PPE and that appropriate hand tools have been selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Select a location to efficiently and safely perform tightening or closing operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Remove obstructions from container if possible.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Place the damaged container or package in appropriate position using safe lifting techniques.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Attempt to position container so that valve or leak is in the uppermost position.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Tighten or close leaking valves, closures, packing glands, and/or fittings as appropriate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 5

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):



## Hazardous Material Technician: Incident Termination

Item 28

**Reference:** NFPA 1072, 2017 Edition, Chapter 7, Job Performance Requirement 7.4.3.2, 7.4.3.3, 7.4.3.4

**Evaluator Equipment Required:** Completed site safety plan from Skill Sheet #1, approved communications equipment, reporting and recording documents.

**Critical Skills:** Critical Skills are identified by a bold type "**C**". Any critical skill that is not completed is considered a failure of the entire Skill Sheet.

**Safety:** A safety violation is grounds for automatic failure. All evaluators present shall review the safety violation.

### Evaluator's Instructions to Candidates

At this station, given a completed hazmat IAP, you will perform, evaluate and terminate a hazardous material incident.

This is NOT a timed event, but must be successfully completed in a time consistent with fire ground operations.

To pass this station you must successfully complete all critical steps and a minimum of 5 of the 6 steps.

### Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
1. Perform assigned duties in the Hazardous Materials Branch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Communicate observations to Hazardous Materials Branch Director/Supervisor, ICS operations section chief, or Incident Commander.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Compare actual behavior of material and container to predicted behavior.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Determine effectiveness of response options and actions in accomplishing response objectives.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Review response actions and discuss and evaluate effectiveness and alternatives.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Conduct debriefing and response AAR.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total score: \_\_\_\_\_

Minimum Score required to pass 5

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

Station: Pass ☐ Fail ☐

Candidate name: \_\_\_\_\_

Candidate Signature: \_\_\_\_\_

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

Evaluator Signature: \_\_\_\_\_

Notes (Please include comments/explanation for failure):