Hazardous Materials Technician

Skill Sheet Package

Based on NFPA 1072: Standard for Professional Competence of Responders to Hazardous Materials Incidents, 2017 Edition.



Tennessee Commission on Firefighting

June 2019

Certification Criteria Hazardous Materials Technician



Pre-Requisites

- ☑ Candidate must be 18 years of age
- ☑ High School Diploma/GED
- ☑ Candidate must be Certified at the Hazardous Materials First Responder Awareness and Operational levels.

Certification Requirements

To be issued certification as a Hazardous Materials Technician, the candidate will:

- Show successful completion of the above pre-requisite requirement. This must be documented on file at the Tennessee Commission on Firefighting.
- ☑ Complete required training hours (minimum 80) to meet NFPA 1072 (Chapter 7)
- ✓ Submit Instructional JPR Verification Sheet
- ✓ Written Examination
 - Perform to a minimum 70% competency on a 100-question examination for Hazardous Materials Technician.
 - Retest after 15 days and must be passed within one year of passing the practical.

✓ Practical Examination

- Successfully complete a skills evaluation (2 skill sheets randomly selected by the TFFC), to a minimum of 70% competency and successful completion of all critical points.
 - One retest allowed at the testing session. Any other practical retesting must be completed after 15 days and at a location where required props and equippent are available.

Basis: Tennessee Commission on Firefighting Personnel Standards & Education, Rules Chapter 0360-03- Requirements for Certified Hazardous Materials Technician.



Tennessee Fire Commission Hazardous Materials Technician

Instructional JPR Verification Sheet

Full Name:Fire De	partment:
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This Instructional JPR Verification Sheet is to be used in conjunction with the Tennessee Fire Commission Hazardous Materials Technician Skill Sheets. These skills meet all the requirements of NFPA 1072, *Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, Chapter 7*, 2017 edition. Each of these skills should be taught and assessed during the course. This form should be submitted by the Instructor for Certification.

Practical Examination for Certification: Skills testing will be conducted using a minimum of 2 of the Skills Sheets listed below. The skills will be randomly drawn by the TFFC Coordinator and administered by an approved evaluator after all training hours have been completed. For successful completion of the practical examination, a minimum 70% competency (including critical points) is required for certification.

Skill Sheet	Prim	nary Task	JPR(s) Covered
01	Radiation Detection and Monitoring		7.1.7, 7.2.1, 7.2.2
02	Gas/Vapor Detection, Monitoring & S	Sampling	7.1.7, 7.2.1, 7.2.2
03	Solid and Liquid Sampling		7.1.7, 7.2.2
04	Identifying Stress(es) on the Container	r	7.1.7, 7.2.3
05	Predicting Behavior		7.1.7, 7.2.4
06	Estimating Outcomes		7.1.7, 7.2.5
07	Response Objectives & Options		7.3.1
08	Personal Protective Equipment (PPE)	Selection	7.3.2
09	Decontamination Method Selection		7.3.3
10	Action Plan Development		7.1.7, 7.3.4
11	Performing Assigned IMS/ICS Dut	ties	7.1.7, 7.4.1
12	Personal Protective Equipment Use	e	7.1.7, 7.4.2
13	Product Control		7.1.7, 7.4.3.1
14	Controlling Container Leaks		7.1.7, 7.4.3.2
15	Overpacking Nonbulk & Radioacti	ve Materials Containers	7.1.7, 7.4.3.3
16	Liquid Product Transfer		7.1.7, 7.4.3.4
17	Mass Decontamination		7.1.7, 7.4.4.1
18	Technical Decontamination		7.1.7, 7.4.4.2
19	Evaluating & Reporting Progress		7.1.7, 7.5.1
20	Terminating the Incident		7.1.7, 7.6.1
Course	Location:	Course Date:	
Instruc	tor Printed Name:	Instructor Signature:	
Candid	ate Printed Name:	Candidate Signature:	



RADIATION DETECTION AND MONITORING

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.2.1, 7.2.2

Hazardous Materials Technician

HMT Skill Sheet - 01

The candidate will classify hazardous materials/WMD and verify the presence and concentrations of hazardous materials through detection, monitoring, and sampling at a hazardous materials/WMD incident, collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with released identified and unidentified hazardous materials; an assignment in an incident action plan (IAP); policies and procedures; approved resources; detection and monitoring equipment; and personal protective equipment (PPE).

Expected time to complete skill(s) is 30 minutes

Performance Steps	Te	Test		est
Safely performs the following steps:	Р	F	Р	F
1. Select proper PPE - CRITICAL POINT				
Determine radiation dose rates from radioactive material labels				
3. Use radiation detection and monitoring devices to classify hazardous materials by basic hazard categories, verify the presence of hazardous materials, or determine the concentration of hazardous materials				
4. Monitor, read, interpret, record, and communicate readings from detection, monitoring, and sampling equipment according to the manufacturers' specifications and recommendations				
5. Complete required reports and supporting documentation for detection, monitoring, and sampling operations and verbally communicates findings				
6. Collect and interpret hazard and response information				
7. Identify signs and symptoms of exposure to hazardous materials/WMD, including target organ effects of exposure to hazardous materials/WMD				
8. Safety procedures followed				
9. Hazards avoided and minimized				
Candidate must successfully perform 7/9 steps including ALL CRITICAL POINTS			Score:	_/9
Fuglisher Notes				

Evaluator Notes



RADIATION DETECTION AND MONITORING

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.2.1, 7.2.2

Hazardous Materials Technician

HMT Skill Sheet - 01

The candidate will classify hazardous materials/WMD and verify the presence and concentrations of hazardous materials through detection, monitoring, and sampling at a hazardous materials/WMD incident, collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with released identified and unidentified hazardous materials; an assignment in an incident action plan (IAP); policies and procedures; approved resources; detection and monitoring equipment; and personal protective equipment (PPE).

Expected time to complete skill(s) is 30 minutes

Evaluator Print Name & Signature:	Date	Overall Skill Sheet Score			
		Pass		Fail	
By my signature above, I verify that I a	am currently co	ertified to the lev	el I am test	ting (TN/PB/IFSAC)	
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill	Sheet Re	e-Test Score	
		Pass		Fail	
By my signature above, I verify that I a	am currently co	ertified to the lev	el I am test	ting (TN/PB/IFSAC)	
Candidate Print Name & Signature:	Candidate:	Print Nar	ne or Candidate #		
Note to Evaluator(s): By your signature above, you verify that you are qualified to serve as an Tennessee Fire Commission Evaluator, have followed TFFC Skills Testing Policy and have witnessed that the above candidate has tested the above skills in their entirety.					
Note to Student: Skill will end when you state or indicate to the evaluator that you have completed all the identified steps. Notify the evaluator at ANY time that you have a safety concern.					

Page 2 of 2



GAS DETECTION, MONITORING, AND SAMPLING

Reference source: NFPA 1072, 2017 edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.2.1, 7.2.2

Hazardous Materials Technician

HMT Skill Sheet - 02

The candidate will classify hazardous materials/WMD and verify the presence and concentrations of hazardous materials through detection, monitoring, and sampling at a hazardous materials/WMD incident, collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with released identified and unidentified hazardous materials; an assignment in an incident action plan (IAP); policies and procedures; approved resources; detection and monitoring equipment; and personal protective equipment (PPE).

Expected time to complete skill(s) is 30 minutes

Performance Steps		Test		est
Safely performs the following steps:	Р	F	Р	F
1. Select proper PPE				
2. Use each of the following types of detection, monitoring, and gas sampling equipment to either classify hazardous materials by basic hazard categories, verify the presence of hazardous materials or determine the concentration of hazardous materials				
3. Colorimetrics (e.g., tubes, chips, papers, strips, reagents)				
4. Electrochemical cells (e.g., toxic gas sensors)				
5. Flammable gas/LEL				
6. Noncontact thermal detection device				
7. Oxygen concentration				
8. Photoionization detector (PID)				
9. Monitor, read, interpret, record, and communicate readings from detection, monitoring, and gas sampling equipment according to the manufacturers' specifications and recommendations				
10. Complete required reports and supporting documentation for detection and monitoring operations and verbally communicates findings				
11. Collect and interpret hazard and response information				
12. Identify signs and symptoms of exposure to hazardous materials/WMD, including target organ effects of exposure to hazardous materials/WMD				
13. Safety procedures followed				
14. Hazards avoided and minimized				
Candidate must successfully perform 10/14 steps including ALL CRITICAL POINTS	Score	:/14	Score:	/14



GAS DETECTION, MONITORING, AND SAMPLING

Reference source: NFPA 1072, 2017 edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.2.1, 7.2.2

Hazardous Materials Technician

HMT Skill Sheet - 02

The candidate will classify hazardous materials/WMD and verify the presence and concentrations of hazardous materials through detection, monitoring, and sampling at a hazardous materials/WMD incident, collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with released identified and unidentified hazardous materials; an assignment in an incident action plan (IAP); policies and procedures; approved resources; detection and monitoring equipment; and personal protective equipment (PPE).

Expected time to complete skill(s) is 30 minutes

Evaluator Notes						
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Evaluator Print Name & Signature:	Date	Overall Skill Shee	1 =			
D		Pass	Fail			
By my signature above, I verify that I a	,		,			
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Shee	T T			
		Pass	Fail			
By my signature above, I verify that I a	am currently ce	ertified to the level I am	n testing (TN/PB/IFSAC)			
Candidate Print Name & Signature:		Candidate: Print	Name or Candidate #			
Note to Evaluator(s): By your signature						
Fire Commission Evaluator, have followed T		sting Policy and have v	witnessed that the above			
candidate has tested the above skills in their entirety. Note to Student: Skill will end when you state or indicate to the evaluator that you have completed all the						
identified steps. Notify the evaluator at ANY						
identified stope. Notify the evaluator at Airi	time that you	have a dalety deliceri	·			

Page 1 of 1

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SOLID AND LIQUID SAMPLING

Reference source: NFPA 1072, 2017 edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.2.1, 7.2.2

Hazardous Materials Technician

HMT Skill Sheet - 03

The candidate will classify hazardous materials/WMD and verify the presence and concentrations of hazardous materials through detection, monitoring, and sampling at a hazardous materials/WMD incident, collect and interpret hazard and response information at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with released identified and unidentified hazardous materials; an assignment in an incident action plan (IAP); policies and procedures; approved resources; detection and monitoring equipment; and personal protective equipment (PPE).

Expected time to complete skill(s) is 30 minutes

Performance Steps			Test		est
Safely performs the following steps:		Р	F	Р	F
Select proper PPE					
2. Collect samples of a liquid and a solid					
3. Use sampling equipment to either classify hazardous materials by be categories, verify the presence of hazardous materials or determine the of hazardous materials					
4. Monitor, read, interpret, record, and communicate readings from sa according to the manufacturers' specifications and recommendations	mpling equipment				
5. Complete required reports and supporting documentation for detect and sampling operations and verbally communicates findings	ion, monitoring,				
6. Collect and interpret hazard and response information					
7. Identify signs and symptoms of exposure to hazardous materials/WMD, including target organ effects of exposure to hazardous materials/WMD					
8. Safety procedures followed					
9. Hazards avoided and minimized					
Candidate must successfully perform 7/9 steps including ALL CR	RITICAL POINTS	Score	:/9	Score:	_/9
Evaluator Notes					
Evaluator Print Name & Signature: Date Overall S	Skill Sheet Scor	е			
Pass	F	ail	_		
By my signature above, I verify that I am currently certified to the	e level I am testing	(TN/P	B/IFS	AC)	
Re-Test Evaluator Print Name & Signature: Overall S	Skill Sheet Re-T	est S	core		
Pass		ail	_		
By my signature above, I verify that I am currently certified to the		` `			
Candidate Print Name & Signature: Candida	te: Print Name	or Ca	andid	ate#	
Note to Evaluator(s): By your signature above, you verify that you are qualified to serve as an Tennessee Fire Commission Evaluator, have followed TFFC Skills Testing Policy and have witnessed that the above candidate has tested the above skills in their entirety.					
Note to Student: Skill will end when you state or indicate to the evaluator that you have completed all the identified steps. Notify the evaluator at ANY time that you have a safety concern.					



IDENTIFYING STRESS(ES) ON THE CONTAINER

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.2.3

Hazardous Materials Technician

HMT Skill Sheet - 04

The candidate will assess the condition of a container and its closures at a hazardous materials/WMD incident, given an incident involving hazardous materials/WMD; an assignment in an IAP; policies and procedures; the scope of the incident; identity of material(s) involved and their hazards, including results of detection, monitoring, and sampling; a container with required markings; and approved resources and PPE.

Expected time to complete skill(s) is 30 minutes

Performance Steps		Те	st	Ret	est	
Safely performs the following steps:		Р	F	Р	F	
Assess the condition of the container and its closures						
2. Identify the type of damage and level of risk associated	with the damage					
3. Identify stress(es) on the container						
 Communicate the condition of the container and its clos associated with that condition 	ures and the level of risk					
5. Safety procedures are followed- CRITICAL POINT						
6. Hazards are avoided or minimized						
Candidate must successfully perform 5/6 steps includ	ing <mark>ALL CRITICAL POINTS</mark>	Score	e:/6	Score:	/6	
Evaluator Print Name & Signature: Date By my signature above, I verify that I am currently contains the contains a signature above.		ail	- PB/IFS	SAC)		
Re-Test Evaluator Print Name & Signature:	Overall Skill Sheet Re-	<u> </u>		,		
The Foot Evaluation Film Harris & Signature.		ail	,0010			
By my signature above, I verify that I am currently c			- PB/IFS	SAC)		
Candidate Print Name & Signature:	Candidate: Print Name	or Ca	andic	late #		
Note to Evaluator(s): By your signature above, you verify that you are qualified to serve as an Tennessee Fire Commission Evaluator, have followed TFFC Skills Testing Policy and have witnessed that the above candidate has tested the above skills in their entirety.						
Note to Student: Skill will end when you state or indicate to the evaluator that you have completed all the identified steps. Notify the evaluator at ANY time that you have a safety concern. Page 1 of 1						



PREDICTING BEHAVIOR

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.2.4

Hazardous Materials Technician

HMT Skill Sheet - 05

The candidate will predict the behavior of the hazardous materials/WMD involved in a hazardous materials/WMD incident, given an incident involving multiple hazardous materials/WMD; an assignment in an IAP; policies and procedures; physical and chemical properties of the materials involved; results of detection, monitoring, and sampling; condition of the container (damage and stress); surrounding conditions; and approved reference sources.

Expected time to complete skill(s) is 30 minutes

Performance Steps				Те	st	Ret	est
Safely performs the following steps:				Р	F	Р	F
Predict the likely behavior of materials and are involved	d their contain	ers when multiple r	materials				
2. Identify reactivity issues associated with n	nixing various	hazardous materia	ıls				
3. Communicate the predicted behavior							
Candidate must successfully perform 3/3	steps includi	ng <mark>ALL CRITICAI</mark>	_ POINTS	Score	:/3	Score:	_/3
Evaluator Print Name & Signature:	Evaluator	Overall Skill S					
By my signature above, I verify that I	 am currently ce	Pass ertified to the level		ail a (TN/F	_ PB/IFS	AC)	
Re-Test Evaluator Print Name & Sig	Overall Skill S Pass	heet Re-	Test S	core	,		
Candidate Print Name & Signature:		Candidate: Print Name or Candidate #					
Note to Evaluator(s): By your signature above, you verify that you are qualified to serve as an Tennessee Fire Commission Evaluator, have followed TFFC Skills Testing Policy and have witnessed that the above candidate has tested the above skills in their entirety.							
Note to Student: Skill will end when you state or indicate to the evaluator that you have completed all the identified steps. Notify the evaluator at ANY time that you have a safety concern. Page 1 of 1							

Page 1 of 1



ESTIMATING OUTCOMES

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.2.5

Hazardous Materials Technician

HMT Skill Sheet - 06

The candidate will estimate the potential outcomes at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, the likely behavior of the container and its contents, and approved resources and equipment.

Expected time to complete skill(s) is 30 minutes

Performance Steps			Тє	st	Ret	est
Safely performs the following steps:			Р	F	Р	F
1. Use approved resources and equipment						
2. Determine concentrations of materials wit	hin the endanç	gered area				
3. Identify the physical, health, and safety ha	azards within th	ne endangered area				
4. Identify the areas of potential harm in the	endangered a	rea				
5. Estimate the potential outcomes in the en	dangered area	1				
6. Communicate the potential outcomes						
Candidate must successfully perform 5/6	steps includ	ng <mark>ALL CRITICAL POINTS</mark>	Score	e:/6	Score:	/6
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Sco	re Fail			
By my signature above, I verify that I a	am currently ce	ertified to the level I am testir	g (TN/F	PB/IFS	AC)	
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re-	Test S	Score		
			-ail	_		
By my signature above, I verify that I a	am currently co	ertified to the level I am testir	g (TN/F	PB/IFS	AC)	
Candidate Print Name & Signature: Candidate: Print Name			e or Ca	andic	late #	
Note to Evaluator(s): By your signature above, you verify that you are qualified to serve as an Tennessee Fire Commission Evaluator, have followed TFFC Skills Testing Policy and have witnessed that the above candidate has tested the above skills in their entirety. Note to Student: Skill will end when you state or indicate to the evaluator that you have completed all the identified steps. Notify the evaluator at ANY time that you have a safety concern.						

Page 1 of 1



RESPONSE OBJECTIVES & OPTIONS

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.3.1

Hazardous Materials Technician

HMT Skill Sheet - 07

The candidate will develop and recommend to the incident commander or hazardous materials officer response objectives and action options at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis, including incident-related information, life safety risks, environmental risks, and property risks; available resources; and policies and procedures.

Expected time to complete skill(s) is 30 minutes

Performance Steps			Te	est	Ret	est	
Safely performs the following steps:			Р	F	Р	F	
1. Develop response objectives for a hazard	ous materials	incident					
2. Identify action options for each response of	objective						
Candidate must successfully perform 2/2	steps includ	ing ALL CRITICAL POINTS	Score	e:/2	Score:	/2	
	Evaluator	Notes					
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Sc	ore				
· ·		Pass	Fail				
By my signature above, I verify that I	am currently co	ertified to the level I am testi	ng (TN/F	PB/IFS	AC)		
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re	-Test S	est Score			
_		Pass	Fail	_			
By my signature above, I verify that I a	am currently co	ertified to the level I am testi	ng (TN/F	PB/IFS	SAC)		
Candidate Print Name & Signature:		Candidate: Print Nam	e or Ca	andic	late #		
Note to Evaluator(s): By your signature a						ee	
Fire Commission Evaluator, have followed T		sting Policy and have witnes	sed that	the a	bove		
candidate has tested the above skills in their entirety.							
Note to Student: Skill will end when you state or indicate to the evaluator that you have completed all the							
identified steps. Notify the evaluator at ANY time that you have a safety concern. Page 1 of 1							



PERSONAL PROTECTIVE EQUIPMENT (PPE) **SELECTION**

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.3.2

Hazardous Materials Technician

HMT Skill Sheet - 08

The candidate will select the PPE ensemble required for a given response option at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, results of the incident analysis, response objectives and options for the incident, approved references, and policies and procedures.

Expected time to complete skill(s) is 30 minutes

Performance Steps			Te	Test		est	
Safely performs the following steps:			Р	F	Р	F	
1. Select PPE ensemble for a specified response	onse option ba	ased on all hazards identifie	d				
2. Determine the effectiveness of protective	clothing based	on its uses and limitations					
Candidate must successfully perform 2/2	steps includ	ing <mark>ALL CRITICAL POINT</mark>	S Score	e:/2	Score:	_/2	
	Evaluator	Notes	<u> </u>				
Evaluator Drint Nama 9 Cignatura	Doto	Overall Chill Cheet Co					
Evaluator Print Name & Signature:	Date	Overall Skill Sheet So					
		Pass	Fail				
By my signature above, I verify that I a	am currently co	ertified to the level I am test	ing (TN/F	PB/IFS	SAC)		
Re-Test Evaluator Print Name & Sign	nature:	Overall Skill Sheet Re	e-Test S	est Score			
		Pass	Fail	_			
By my signature above, I verify that I a	am currently co	ertified to the level I am test	ing (TN/F	PB/IFS	SAC)		
Candidate Print Name & Signature:		Candidate: Print Nar	ne or Ca	andic	late #		
G							
Note to Evaluator(s): By your signature a	above, you ve	rify that you are qualified to	serve as	an Te	nness	ee	
Fire Commission Evaluator, have followed T		sting Policy and have witne	ssed that	the a	bove		
candidate has tested the above skills in their entirety.							
Note to Student: Skill will end when you state or indicate to the evaluator that you have completed all the							
identified steps. Notify the evaluator at ANY	time that you Page 1	-					

Page 1 of 1



DECONTAMINATION METHOD SELECTION

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.3.3

Hazardous Materials Technician

HMT Skill Sheet - 09

The candidate will select the decontamination method for a given response option at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, results of the incident analysis, response objectives and options for the incident, available resources, and policies and procedures.

Expected time to complete skill(s) is 30 minutes

Performance Steps			Те	st	Ret	est
Safely performs the following steps:			Р	F	Р	F
1. Select decontamination procedures (operation)	ations and me	thods).				
2. Identify the equipment required to implem and methods).	ent decontami	nation procedure (operations				
Candidate must successfully perform 2/2	steps includ	ing ALL CRITICAL POINTS	Score	e:/2	Score:	/2
	Evaluator					
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Sco	re			
			ail	_		
By my signature above, I verify that I a	am currently ce	ertified to the level I am testin	g (TN/F	PB/IFS	AC)	
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re-	Test S	core		
		Pass	ail	_		
By my signature above, I verify that I	am currently ce	ertified to the level I am testin	g (TN/F	B/IFS	AC)	
Candidate Print Name & Signature:		Candidate: Print Name	or Ca	andid	ate #	
Note to Evaluator(s): By your signature a Fire Commission Evaluator, have followed T candidate has tested the above skills in their	FFC Skills Te					ee
Note to Student: Skill will end when you identified steps. Notify the evaluator at ANY		have a safety concern.	ve con	nplete	d all th	е

Page 1 of 1



ACTION PLAN DEVELOPMENT

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.3.4

Hazardous Materials Technician

HMT Skill Sheet - 10

The candidate will develop a plan of action for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, results of the incident analysis, response objectives and options for the given incident, available resources, and policies and procedures.

Expected time to complete skill(s) is 30 minutes

Performance Steps			Те	st	Ret	est
Safely performs the following steps:			Р	F	Р	F
Prepare an action plan						
2. Identify site safety and control component	S					
3. Identify points for a safety briefing- CRITIC	CAL POINT					
4. Identify pre-entry tasks						
Identify atmospheric and physical safety h space	nazards when i	ncident involves a confined				
6. Preserve and collect any legal evidence						
7. The developed plan meets the response of	objectives					
8. The plan is within the capability of availab	le personnel, F	PPE, and control equipment				
Candidate must successfully perform 6/8	steps includ	ing ALL CRITICAL POINTS	Score	e:/8	Score:	/8
	D. (
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Scor				
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Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re-T		core		
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	ani currently ce	Candidate: Print Name				
Candidate Print Name & Signature:		Candidate. Print Name	OI Ca	ariuic	iale #	
Note to Evaluator(s): By your signature a Fire Commission Evaluator, have followed T candidate has tested the above skills in their	FFC Skills Te					ee
Note to Student: Skill will end when you identified steps. Notify the evaluator at ANY			ve con	nplete	d all th	е
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Page 1 of 1



PERFORMING ASSIGNED IMS/ICS DUTIES

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.4.1

Hazardous Materials/WMD Technician

HMT Skill Sheet - 11

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

Expected time to complete skill(s) is 30 minutes

Performance Steps			Te	Test		Retest	
Safely performs the following steps:			Р	F	Р	F	
Perform the duties and responsibilities of an assigned function in the hazardous materials branch or group organization							
2. Communicate observations to hazardous materials branch director/group supervisor, ICS operations section chief, or IC $$,				
Candidate must successfully perform 2/2 steps including ALL CRITICAL POINTS		Score	e:/2	Score:	/2		
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Sc					
By my signature above, I verify that I	am currently c	Pass ertified to the level I am testi	Fail na (TN/I	_ PB/IFS	SAC)		
Re-Test Evaluator Print Name & Sig	•	Overall Skill Sheet Re	• •				
		Pass	Fail	_			
By my signature above, I verify that I	am currently c	ertified to the level I am testi	ng (TN/I	PB/IFS	SAC)		
Candidate Print Name & Signature:		Candidate: Print Nam	e or Ca	andic	late #		
Note to Evaluator(s): By your signature of Fire Commission Evaluator, have followed a candidate has tested the above skills in their Note to Student: Skill will end when your	FFC Skills Te r entirety.	sting Policy and have witnes	sed tha	t the a	bove		
identified steps. Notify the evaluator at ANY							

Page 1 of 1



PERSONAL PROTECTIVE EQUIPMENT USE

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.4.2

Hazardous Materials Technician

HMT Skill Sheet - 12

The candidate will don, work in, and doff PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, results of the incident analysis, response objectives and options for the incident, and PPE ensembles as identified in the IAP.

Expected time to complete skill(s) is 30 minutes

Performance Steps				Te	st	Ret	est
Safely performs the following steps:				Р	F	Р	F
1. Inspect, don, work in, going through technical decontamination while wearing PPE							
2. Properly maintain and store equipment							
Complete required reports and supporting documents for the use of PPE							
4. Safety procedures are followed- CRITICA	L POINT						
5. Hazards are avoided or minimized							
Candidate must successfully perform 4/5	steps includ	ing <mark>ALL CRITICAL POIN</mark>	TS	Score	:/5	Score:	_/5
	Evaluator	Notes					
Evaluator Print Name & Signature:	Date	Overall Skill Sheet S	<u>score</u>	<u> </u>			
		Pass	Fa				
By my signature above, I verify that I a	am currently co	ertified to the level I am te	sting ((TN/P	B/IFS	AC)	
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet F	Re-Te	est S	core		
		Pass	Fa	il	_		
By my signature above, I verify that I	am currently c	ertified to the level I am te	sting ((TN/P	B/IFS	AC)	
Candidate Print Name & Signature:		Candidate: Print Na	me c	or Ca	andid	ate #	
•							
Note to Evaluator(s): By your signature							ee
Fire Commission Evaluator, have followed T		sting Policy and have witn	essec	that	the a	oove	
candidate has tested the above skills in their							
Note to Student: Skill will end when you			u have	e con	plete	d all th	е
identified steps. Notify the evaluator at ANY	time that you						

Page 1 of 1

ON ON FIRE FIGHTING NO.

PRODUCT CONTROL

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.4.3.1

Hazardous Materials Technician

HMT Skill Sheet - 13

The candidate will perform product control techniques at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product, an assignment in an IAP, results of the incident analysis, policies and procedures for product control, response objectives and options for the incident, and approved tools, equipment, control agents, and PPE.

Expected time to complete skill(s) is 30 minutes

Performance Steps			Te	est	Ret	est
Safely performs the following steps:			Р	F	Р	F
1. Select and use PPE						
2. Protect exposures and personnel						
3. Select and use approved control agents a hazardous materials/WMD	nd equipment	on a release involving				
4. Use container control valves and remote e	emergency sh	utoff devices				
5. Perform product control techniques						
6. Product is controlled						
7. Safety procedures are followed- CRITICAL POINT						
8. Inspect and maintain tools and equipment	İ					
9. Complete required and supporting docum	entation for pr	oduct control operations				
Candidate must successfully perform 7/9	steps includ	ing ALL CRITICAL POINTS	Score	e:/9	Score:	_/9
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Scor	·e			
		Pass F	ail	_		
By my signature above, I verify that I a	am currently ce	ertified to the level I am testing	TN/F	PB/IFS	AC)	
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re-	Test S	Score		
		Pass F	ail	_		
By my signature above, I verify that I a	am currently co	ertified to the level I am testing) (TN/F	PB/IFS	SAC)	
Candidate Print Name & Signature:		Candidate: Print Name	or Ca	andic	late #	
Note to Evaluator(s): By your signature a Fire Commission Evaluator, have followed T candidate has tested the above skills in their	FFC Skills Te					ee
Note to Student: Skill will end when you			ve cor	nplete	d all th	е
identified steps. Notify the evaluator at ANY	time that you	·				

PESCHINE STANDARDS & COLOR

CONTROLLING CONTAINER LEAKS

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.4.3.2

Hazardous Materials Technician

HMT Skill Sheet - 14

The candidate will control leaks from containers and their closures at a hazardous materials/WMD incident, given three scenarios, including (1) a leak from a bulk or nonbulk pressure container or its closures, (2) a leak from a nonbulk liquid container or its closures, and (3) a leak from a bulk liquid container or its closures; an assignment in an IAP; results of the incident analysis; policies and procedures for controlling leaks from containers and/or their closures; and approved tools, equipment, and PPE.

Expected time to complete skill(s) is 30 minutes

Performance Steps		Те	st	Ret	est
Safely performs the following steps:		Р	F	Р	F
1. Select and use PPE					
2. Select and use approved control agents and equipmen	nt				
3. Protect personnel and exposures					
4. Control leaks on containers and their closures (patchin remote valve shutoff, closing valves, repositioning contain and tightening loose fittings)	g, plugging, sealing closures, ner; replacing missing plugs,				
5. Decontaminate tools and equipment					
6. Hazards are avoided or minimized					
7. Safety procedures are followed- CRITICAL POINT					
8. Inspect and maintain tools and equipment					
9. Complete requirements for reporting and documenting product control operations					
Candidate must successfully perform 7/9 steps including ALL CRITICAL POINTS				Score:	_/9
Evaluator Print Name & Signature: Date	Overall Skill Sheet Scor	re .			
	Pass F	ail			
By my signature above, I verify that I am currently	certified to the level I am testing	TN/F	B/IFS	AC)	
Re-Test Evaluator Print Name & Signature:	Overall Skill Sheet Re-	Test S	core		
	Pass F	ail			
By my signature above, I verify that I am currently	certified to the level I am testing	(TN/F	B/IFS	AC)	
Candidate Print Name & Signature:	Candidate: Print Name	or Ca	andid	late #	
Note to Evaluator(s): By your signature above, you verified Commission Evaluator, have followed TFFC Skills To candidate has tested the above skills in their entirety.	esting Policy and have witness	ed that	the a	bove	
Note to Student: Skill will end when you state or indicidentified steps. Notify the evaluator at ANY time that you		ve con	npiete	a all th	е



OVERPACKING NONBULK & RADIOACTIVE MATERIALS CONTAINERS

Reference source: NFPA 1072-2017, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications 7.1.7, 7.4.3.3

Hazardous Materials Technician

HMT Skill Sheet - 15

The candidate will overpack damaged or leaking nonbulk and radioactive materials containers at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment in an IAP; results of the incident analysis; a loaded damaged or leaking container; a suitable overpack container; policies and procedures; and approved tools, equipment, and PPE.

Expected time to complete skill(s) is 30 minutes

erformance Steps		Te	est	Ret	est	
Safely performs the following steps:			Р	F	Р	F
1. Select and use PPE						
2. Place a damaged or leaking nonbulk mat	erials containe	r into the overpack container				
3. Place a damaged or leaking radioactive r container	naterials conta	iner into an overpack				
4. Follow safety procedures- CRITICAL PO	INT					
5. Hazards are avoided or minimized						
6. Decontaminate tools and equipment						
7. Inspect and maintain tools and equipmen	it					
8. Complete requirements for reporting and	documenting	product control operations				
Candidate must successfully perform 5/7	steps includ	ing ALL CRITICAL POINTS	Score	e:/7	Score	/7
	Evaluator	Notes				
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Scor				
			ail			
By my signature above, I verify that I	•		•			
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re-T		Score		
		Pass F	ail	_		
	am currently c					
	an currently c	ertified to the level I am testing	•			
Candidate Print Name & Signature:	an currently c	ertified to the level I am testing Candidate: Print Name	•			
Note to Evaluator(s): By your signature Fire Commission Evaluator, have followed candidate has tested the above skills in the	above, you ve	Candidate: Print Name	or C	andic	late #	
Note to Evaluator(s): By your signature Fire Commission Evaluator, have followed	above, you ve TFFC Skills Te ir entirety. state or indica	Candidate: Print Name rify that you are qualified to se sting Policy and have witnesse te to the evaluator that you ha	or Carve as	andic an Te	enness bove	ee



LIQUID PRODUCT TRANSER

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.4.3.4

Hazardous Materials Technician

HMT Skill Sheet - 16

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

Expected time to complete skill(s) is 30 minutes

Performance Steps			Te	est	Ret	est
Safely performs the following steps:			Р	F	Р	F
1. Select and use PPE						
2. Identify a compatible recovery container and tra	ansfer eq	uipment				
3. Monitor for hazards						
4. Ground and bond containers						
5. Transfer liquid product from a leaking container	r to a reco	overy container				
6. Suppress vapors						
7. Decontaminate responders, tools, and equipme	ent					
8. Inspect and maintain tools and equipment						
9. Complete reports and supporting documentation		•				
Candidate must successfully perform 7/9 step	s includi	ng <mark>ALL CRITICAL POINTS</mark>	Score	e:/9	Score:	/9
Evaluator Print Name & Signature: Dat	te	Overall Skill Sheet Sco	re			
			Fail			
By my signature above, I verify that I am cu			•			
Re-Test Evaluator Print Name & Signatu	re:	Overall Skill Sheet Re-		PB/IFSAC) Core PB/IFSAC) Candidate # an Tennessee the above		
			Fail			
By my signature above, I verify that I am cu	urrently ce		<u> </u>			
Candidate Print Name & Signature:		Candidate: Print Nam	e or C	andic	date #	
Note to Evaluator(s): By your signature above Fire Commission Evaluator, have followed TFFC candidate has tested the above skills in their entire	Skills Tes rety.	sting Policy and have witnes	sed that	t the a	bove	
Note to Student: Skill will end when you state			ave cor	nplete	d all th	ie
identified steps. Notify the evaluator at ANY time	that you	•				

Page 1 of 1



MASS DECONTAMINATION

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.4.4.1

Hazardous Materials Technician

HMT Skill Sheet - 17

The candidate will perform mass decontamination for ambulatory and nonambulatory victims at a hazardous materials/WMD incident, given a hazardous materials/WMD incident requiring mass decontamination; an assignment in an IAP; results of the incident analysis; policies and procedures; and approved PPE, tools, and equipment.

Expected time to complete skill(s) is 30 minutes

Performance Steps	Te	st	Ret	est
Safely performs the following steps:	Р	F	Р	F
Select and use suitable PPE				
2. Select a mass decontamination procedure to minimize the hazard				
Set up and implement mass decontamination operations for ambulatory and nonambulatory victims				
Evaluate the effectiveness of the mass decontamination process				
5. Safety procedures are followed- CRITICAL POINT				
6. Hazards are avoided or minimized				
7. Complete reporting and documentation requirements				
Candidate must successfully perform 5/7 steps including ALL CRITICAL POINTS	Score	:/7	Score:	/7
Evaluator Print Name & Signature: Date Overall Skill Sheet Sco	re			
	ail	_		
By my signature above, I verify that I am currently certified to the level I am testin	g (TN/F	B/IFS	SAC)	
Re-Test Evaluator Print Name & Signature: Overall Skill Sheet Re-	Test S	core		
	ail	_		
By my signature above, I verify that I am currently certified to the level I am testin				
Candidate Print Name & Signature: Candidate: Print Name	or Ca	andid	late #	
Note to Evaluator(s): By your signature above, you verify that you are qualified to se				ee
Fire Commission Evaluator, have followed TFFC Skills Testing Policy and have witness candidate has tested the above skills in their entirety.	ed that	tne a	pove	
Note to Student: Skill will end when you state or indicate to the evaluator that you ha	ve con	nplete	d all th	е
identified steps. Notify the evaluator at ANY time that you have a safety concern.		•		

Page 1 of 1



TECHNICAL DECONTAMINATION

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.4.4.2

Hazardous Materials Technician

HMT Skill Sheet - 18

The candidate will establish and implement technical decontamination in support of entry operations and for ambulatory and nonambulatory victims at a hazardous materials/WMD incident, given a hazardous materials/WMD incident requiring technical decontamination; an assignment in an IAP; results of the incident analysis; policies and procedures; and approved PPE, tools, and equipment.

Expected time to complete skill(s) is 30 minutes

Performance Steps	Те	st	Ret	est
Safely performs the following steps:	Р	F	Р	F
1. Select and use PPE				
Select a technical decontamination procedure to minimize the hazard				
3. Set up and implement technical decontamination operations				
4. Safety procedures are followed- CRITICAL POINT				
5. Hazards are avoided or minimized				
6. Evaluate the effectiveness of the technical decontamination procedure				
7. Complete required reports and supporting documentation for technical decontamination operations.				
Candidate must successfully perform 5/7 steps including ALL CRITICAL POINTS	Score	:/7	Score:	/7
Evaluator Notes				
Evaluator Print Name & Signature: Date Overall Skill Sheet Score	9			
Pass Fa	ail	_		
By my signature above, I verify that I am currently certified to the level I am testing	(TN/P	B/IFS	AC)	
Re-Test Evaluator Print Name & Signature: Overall Skill Sheet Re-Test	est S	core		
Pass Fa		_		
By my signature above, I verify that I am currently certified to the level I am testing	(TN/P	B/IFS	AC)	
Candidate Print Name & Signature: Candidate: Print Name	or Ca	andid	ate#	
Note to Evaluator(s): By your signature above, you verify that you are qualified to sensitive Commission Evaluator, have followed TFFC Skills Testing Policy and have witnessed candidate has tested the above skills in their entirety.				ee
Note to Student: Skill will end when you state or indicate to the evaluator that you have	e con	plete	d all th	е
identified steps. Notify the evaluator at ANY time that you have a safety concern. Page 1 of 1				



EVALUATING & REPORTING PROGRESS

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.5.1

Hazardous Materials Technician

HMT Skill Sheet - 19

The candidate will evaluate and report the progress of assigned tasks at a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, current incident conditions, response options and actions taken, and approved communication equipment.

Expected time to complete skill(s) is 30 minutes

Performance Steps			Te	est	Ret	est
Safely performs the following steps:			Р	F	Р	F
1. Compare predicted behavior of the mater	ial and its cont	ainer to the actual behavior				
2. Determine effectiveness of response option	ons and action	S				
3. Communicate the status of response option	ons and action	S				
4. Modify the response options and actions I	pased on the ir	ncident status review				
Candidate must successfully perform 3/4	steps includi	ing <mark>ALL CRITICAL POINTS</mark>	Scor	e:/4	Score:	/4
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Sc	ore			
Evaluator i filit Name a Signature.	Date	Pass	Fail			
By my signature above, I verify that I	am currently ce			B/IFS	SAC)	
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re	-Test S	Score		
_		Pass	Fail	_		
By my signature above, I verify that I	am currently ce	ertified to the level I am testi	ng (TN/F	PB/IFS	SAC)	
Candidate Print Name & Signature:		Candidate: Print Nam	e or C	andic	late #	
Note to Evaluator(s): By your signature of Fire Commission Evaluator, have followed and candidate has tested the above skills in their	FFC Skills Tear	sting Policy and have witnes	sed that	the a	bove	
Note to Student: Skill will end when you identified steps. Notify the evaluator at ANY		have a safety concern.	ave cor	nplete	d all th	ie

Page 1 of 1



TERMINATING THE INCIDENT

Reference source: NFPA 1072, 2017 Edition, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 7.1.7, 7.6.1

Hazardous Materials Technician

HMT Skill Sheet - 20

The candidate will terminate a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment in an IAP, policies and procedures, operational observations of response operations (incident information), and approved forms for documentation and reporting.

Expected time to complete skill(s) is 30 minutes

Performance Steps			Te	Test		est
Safely performs the following steps:			Р	F	Р	F
Communicate operational observations (incident information) at debriefings and critiques						
2. Complete, forward and file required reports, records, and supporting documentation						
Candidate must successfully perform 2/2 steps including ALL CRITICAL POINTS			Score	e:/2	Score:	/2
	Evaluator	Notes				
Evaluator Print Nama & Cianatura	Date	Overall Skill Sheet Scor				
Evaluator Print Name & Signature:	Date	Overall Skill Sheet Scol	<u>e </u>			
		Pass F	ail	_		
By my signature above, I verify that I	am currently c	ertified to the level I am testing	j (TN/F	PB/IFS	SAC)	
Re-Test Evaluator Print Name & Sig	nature:	Overall Skill Sheet Re-7	est S	Score		
_		Pass F	ail			
By my signature above, I verify that I	am currently c	ertified to the level I am testing	 (TN/F	B/IFS	SAC)	
Candidate Print Name & Signature:		Candidate: Print Name	or C	andic	late #	
Candidate i fint Name & Dignature.		Candidate: 1 mit rvame	01 0	ariaic	ιαιο π	
Note to Evaluator(s): By your signature	above vou vo	rify that you are qualified to se	nyo ac	an Ta	nnace	00
Fire Commission Evaluator, have followed						cc
candidate has tested the above skills in their		same nave manees	ou triui	uio a	5010	
Note to Student: Skill will end when you		te to the evaluator that you ha	ve cor	nplete	d all th	ne
identified steps. Notify the evaluator at ANY						
<u> </u>	Page 1	of 1				