Hazardous Materials Technician

18 Skills Total

NFPA 470

Standard for Hazardous Materials/Weapons of Mass

<u>Destruction (WMD)</u> Standard for Responders

2022 Edition

Hazardous Materials Responder Skill Sheets

NFPA 470 Ch11 Tech	Task:	JPR Initial Certification Requirement: 8 Mandatory 3 Random Renewal JPR Requirement: Meet the Performance Outcome of 100% of all JPRs (including all subsections)
1	Develop an Incident Action Plan (IAP)	11.2.1, 11.3.1, 11.3.4, 11.4.1, 11.5.1
2	Use Approved Research Resources	11.2.1, 11.2.4, 11.2.5
3	Sampling Techniques	11.2.1; 11.2.2
4	Inspect, Test, Maintain and Document Chemical Protective Clothing	11.4.2
5	Don, Work In & Decon - Splash Protection Clothing	11.2.2; 11.3.2; 11.4.2
6	Don, Work In & Decon - Vapor Protection Clothing	11.2.2; 11.3.2; 11.4.2
7	Perform Mass Decon on Ambulatory and Nonambulatory Victims	11.3.3; 11.4.5.1
8	Perform Technical Decon on Ambulatory and Nonambulatory Victims	11.3.3; 11.4.5.2
9	Plug and Patch a Leaking Container	11.2.3;11.2.4; 11.3.2; 11.4.3.1; 11.4.3.2
10	Control a Leak from a Pressurized Container	11.2.3; 11.2.4; 11.3.2; 11.4.3.1; 11.4.3.2
11	Ground & Bond and Liquid Product Transfer from a Nonpressure Container	11.2.3; 11.2.4; 11.2.5; 11.3.2; 11.4.3.4
12	Remote Valve Shutoff/Emergency Shutoff Device	11.2.3; 11.2.4; 11.3.2; 11.4.3.1; 11.4.3.2

13	Tighten or Close Leaking Valves, Packing Glands, and/or Fittings	11.2.3; 11.2.4; 11.3.2; 11.4.3.1; 11.4.3.2
14	Dome Clamp	11.3.2; 11.4.3.2
15	Overpack a Nonbulk Container and/or Radioactive Materials Package	11.3.2; 11.4.3.3
16	Perform, Evaluate, and Terminate a Hazardous	11.5.1; 11.6.1
17	Victim Rescue and Recovery	11.3.2; 11.4.4.2
18	Rescue of an Incapacitated Team Member	11.3.2; 11.4.4.1

Develop a Hazmat Incident Action Plan

Standard: 11.2.1; 11.3.1; 11.3.4; 11.4.1; 11.5.1 NFPA 470, 2022 Edition	Tasks: Develop a hazmat incident action planthat includes response options and objereports and documentation according to AH.	ctives.	Comple	ete requ	ired
Performance Outcome	The candidate, given a scenario, will develop a with a site safety and control plan, detailing straiting the incident, site communications, reprocedures, PPE plan, safety briefing, collecting and completing all required reports and support	rategies nedical ng and p	and tac plan, de reservi	tics for econ ng evide	-
	zardous materials scenario, resource list, ICS	Form 2	08, resp	oonse	
failure of the entire Skill Sheet	by a bold type "C". Any critical skill that is not.				red a
Safety: A safety violation is safety violation.	grounds for automatic failure. All proctors pre-	sent sha	ll revie	w the	
		Ini	tial	Ret	est
	OR SKILL COMPLETION	Yes	No	Yes	No
1 I.1					
	he problem of a Hazardous Materials/WMD				
incident to include cor	ntainer types, fixed facility, transportation, etc.				
incident to include con 2. Develop strategies and	ntainer types, fixed facility, transportation, etc. tactics for mitigating the incident.				
incident to include con 2. Develop strategies and 3. Develop and describe a	tactics for mitigating the incident. a site map or sketch with control zones.				
2. Develop strategies and 3. Develop and describe a 4. Develop and describe s	ntainer types, fixed facility, transportation, etc. tactics for mitigating the incident. a site map or sketch with control zones. site communications.				
incident to include con 2. Develop strategies and 3. Develop and describe a 4. Develop and describe a 5. Develop and describe a	ntainer types, fixed facility, transportation, etc. tactics for mitigating the incident. a site map or sketch with control zones. site communications. medical assistance and triage.				
incident to include con 2. Develop strategies and 3. Develop and describe a 4. Develop and describe a 5. Develop and describe a 6. Describe decontaminat	ntainer types, fixed facility, transportation, etc. tactics for mitigating the incident. a site map or sketch with control zones. site communications. medical assistance and triage. tion procedures. (From skill sheet #1)				
incident to include con 2. Develop strategies and 3. Develop and describe a 4. Develop and describe a 5. Develop and describe a 6. Describe decontaminat 7. Describe a PPE plan. (ntainer types, fixed facility, transportation, etc. tactics for mitigating the incident. a site map or sketch with control zones. site communications. medical assistance and triage. tion procedures. (From skill sheet #1) From skill sheet #1)				
incident to include con 2. Develop strategies and 3. Develop and describe a 4. Develop and describe a 5. Develop and describe a 6. Describe decontaminat 7. Describe a PPE plan. (8. Identify points of a saf	ntainer types, fixed facility, transportation, etc. tactics for mitigating the incident. a site map or sketch with control zones. site communications. medical assistance and triage. tion procedures. (From skill sheet #1) From skill sheet #1) ety briefing.				
incident to include con 2. Develop strategies and 3. Develop and describe a 4. Develop and describe a 5. Develop and describe a 6. Describe decontaminat 7. Describe a PPE plan. (8. Identify points of a saf 9. Describe preserving an	ntainer types, fixed facility, transportation, etc. tactics for mitigating the incident. a site map or sketch with control zones. site communications. medical assistance and triage. tion procedures. (From skill sheet #1) From skill sheet #1) ety briefing. ad collecting legal evidence.				
incident to include con 2. Develop strategies and 3. Develop and describe a 4. Develop and describe a 5. Develop and describe a 6. Describe decontaminat 7. Describe a PPE plan. (8. Identify points of a saf 9. Describe preserving an	ntainer types, fixed facility, transportation, etc. tactics for mitigating the incident. a site map or sketch with control zones. site communications. medical assistance and triage. tion procedures. (From skill sheet #1) From skill sheet #1) ety briefing.				
incident to include con 2. Develop strategies and 3. Develop and describe a 4. Develop and describe a 5. Develop and describe a 6. Describe decontaminat 7. Describe a PPE plan. (8. Identify points of a saf 9. Describe preserving an	ntainer types, fixed facility, transportation, etc. tactics for mitigating the incident. a site map or sketch with control zones. site communications. medical assistance and triage. tion procedures. (From skill sheet #1) From skill sheet #1) ety briefing. ad collecting legal evidence.				
incident to include con 2. Develop strategies and 3. Develop and describe a 4. Develop and describe a 5. Develop and describe a 6. Describe decontaminat 7. Describe a PPE plan. (8. Identify points of a saf 9. Describe preserving an 10. Complete and record re	ntainer types, fixed facility, transportation, etc. tactics for mitigating the incident. a site map or sketch with control zones. site communications. medical assistance and triage. tion procedures. (From skill sheet #1) From skill sheet #1) ety briefing. ad collecting legal evidence.	Score	needed	to pass	9
incident to include con 2. Develop strategies and 3. Develop and describe a 4. Develop and describe a 5. Develop and describe a 6. Describe decontaminat 7. Describe a PPE plan. (8. Identify points of a saf 9. Describe preserving an 10. Complete and record re	ntainer types, fixed facility, transportation, etc. tactics for mitigating the incident. a site map or sketch with control zones. site communications. medical assistance and triage. tion procedures. (From skill sheet #1) From skill sheet #1) ety briefing. ad collecting legal evidence.	Score	needed	to pass	9

Proctor Name	Proctor Signature		
Retest Proctor Name	Retest Proctor Signature		

SITE SAFETY AND	1. Inc	cider	nt Nam	ne:		2. Date Prepared:				3. Operational Period:					
CONTROL PLAN						· ·				Time:					
ICS 208 HM															
				Section	on I. Sit	te	Inform	ation							
4. Incident Location:															
					ion II. (tion	-						
5. Incident Commander:			6.	HM Gr	oup Supe	ervi	sor:			7. Te	ch. Spe	ecialist -	HM Re	ference	∌:
8. Safety Officer:			9.	Entry I	_eader:					10. Sit	e Acce	ss Contr	ol Lead	er:	
11. Asst. Safety Officer - HM:			12.	Deconta	amination	Le	eader:			13. Sa	fe Refu	ge Area	Mgr:		
14. Environmental Health:			15.							16.					
17. Entry Team: (Buddy Systen	n)		-			1	8 Dec	ontamin	ation F	lement					
Name				PPF	Level	l '	o. Doc	ontamin	ation L		ame:			PPE L	evel
Entry 1	•					Б	Decon 1								
Entry 2						-	Decon 2								
Entry 3						₩	Decon 3								
Entry 4						_	Decon 4						 		
			So	ction I	II. Haza				ie						
19. Material:		`onts	ainer	Qty.	Phys.	_	pH	IDLH	F.P.	I.T.	V.P.	V.D.	S.G.	LEL	UEL
19. Material.		typ		Qty.	State		рп	IDLIT	' .' .	'.'.	V.I.	V.D.	0.0.		OLL
		1717			Otato	\dashv									
						\dashv									
						\dashv									
						\dashv									
Comment:															<u> </u>
			S	Section	IV. Ha	zar	rd Mor	nitoring							
20. LEL Instrument(s):						2	1. O ₂	Instrum	ent(s):						
22. Toxicity/PPM Instrument(s):						2	3. Rac	diologica	l Instru	ment(s):				
Comment:						_									
			Sec	tion V	Decon	nta	minati	on Pro	cedur	es					
24. Standard Decontamination	Procedu	res:										YES:		NO:	
Comment:															
			Se	ction \	/I. Site	Co	ommui	nication	าร						
25. Command Frequency:			26.	Tactical	l Frequen	су:				27. Er	try Fre	quency:			
			Se	ection	VII. Me	dic	cal As	sistanc	е						
28. Medical Monitoring:	YES:		NO:		29. Me	dic	al Trea	tment ar	nd Tran	sport I	n-place:	\	/ES:	NC):
Comment:															

Section VI	II. Site Map		
30. Site Map:			
			†
			l
	lly Areas Escape Routes	Other 📮	
31. Entry Objectives:	ntry Objectives		
chi zhay esjedared.			
Section X. SOPS and	d Safe Work Practices		
32. Modifications to Documented SOP s or Work Practices:		YES:	NO:
Comment:			l
	rgency Procedures		
33. Emergency Procedures:			
	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.

Itama Niversia	Itama Titla	In atmention a
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.

Use Approved Reference Resources

Standard: 11.2.1; 11.2.4; 11.2.5	Tasks: Use approved reference reinformation.	esources to i	nterpret h	azard an	d response
NFPA 470, 2022 Edition					
Performance Outcome	The candidate, given a scenario and hazard and response information.	d reference	resources	will inte	rpret the
Equipment Required: A haz reference resources.	zardous materials scenario, an assi	gnment in a	nn IAP, a	nd appro	oved
Critical Skills are identified I failure of the entire Skill Sheet.	by a bold type "C". Any critical sl	kill that is n	ot comple	ted is co	nsidered a
	grounds for automatic failure. All p	proctors pres	sent shall	review 1	the
			itial		Retest
	KILL COMPLETION	Yes	No	Yes	No
 Collect hazard and resp Interpret hazard and resp 					
	roperties and hazards associated.				
	ptoms of exposures (including targe	t			
5. Methods for identifyin	g pressures within a container.				
6. Determine radiation ex	posure rates from containers.				
C 7. Determine appropriate	decon procedures.				
C 8. Determine appropriate	PPE for incident.				
9. Communicate hazard a					
3 C C C C C C C C C C C C C C C C C C C					
Total		Scor	e needed to	pass	8
Candidate Name	Candidate Signatur	re			Date
Proctor Name	Proctor Signature				
Retest Proctor Name	Retest Proctor Sign	nature			

Explanatory Material for Skill Sheet #2

Hazardous materials technicians must have the knowledge and skills necessary to interpret the results of the incident analysis include weather conditions (current and projected); terrain; time of day; buildings; people; bodies of water; hazard and response information collected; results of detection, monitoring, and sampling; condition of container; and predicted behavior of the container and its contents. Approved resources include printed and technical resources, computer databases, and specialists in the field.

Proctors are required to develop a scenario where candidates must utilize the resources such as ALOHA, CAMEO, WISER, NIOSH and SDS to interpret and predict the behavior of the container and the chemical depending on the weather conditions, terrain, time of day, buildings, people, bodies of water, hazard and response information collected, results of detection, monitoring and sampling.

The equipment available to the Authority Having Jurisdiction (AHJ) must be able to support this evaluation.

Sampling Techniques

NFPA Objectives: 11.2.1, 11.2.2 NFPA 470, 2022 Edition Tasks: Perform sampling techniques to identify hazards associated with solid, liquid, and gaseous substances.						
Performance Outcome	The candidate shall select the appropriate shall perform sampling techniques on a state the hazards associated with the given materials.	olid, a liqı	uid, and	a gas, id	entify	
strips, reagents), electrochemi	tion of various PPE ensembles, colorimo cal cells (e.g. toxic gas sensors), flamma gen concentration, photoionization detec- onitoring.	ble gas/L	EL, nor	n-contact	t	
failure of the entire Skill Sheet.	by a bold type "C". Any critical skill the rounds for automatic failure. All proctor					
safety violation.	1			1		
STEPS FOR	SKILL COMPLETION	Initial Yes No		Yes	test No	
equipment is chosen. 2. Ensure that candidate s 3. Collect a sample of the Read, interpret, and report t C 4. Colorimetrics (e.g., tub C 5. Radiation detection and C 6. Air Monitoring Equipm LEL, Oxygen Concent C 7. Photoionization Detect C 8. Non-contact Thermal I 9. Dispose of sample in ac 10. Decontaminate equipment of the colories of	material. he results of the following tests: es, chips, papers, strips, reagents) I monitoring equipment nent (Toxic gas, Flammable Gas ration) or (PID) Detection Equipment ecordance with appropriate regulations. ent and return to operational state					
Total						
		Score needed to pass			10	

Candidate Signature

Date

Candidate Name

Proctor Name	Proctor Signature		
Retest Proctor Name	Retest Proctor Signature		

Explanatory Material for Skill Sheet #3

Hazardous materials technicians must have the knowledge and skills necessary to operate and interpret readings for each of the following pieces of detection and monitoring equipment: colorimetric (e.g., tubes, chips, papers, strips, reagents); electrochemical cells (e.g., toxic gas sensors), flammable gas/LEL noncontact thermal detection, oxygen concentration, photoionization detector (PID) devices; and radiation detection and monitoring devices.

Proctors are required to develop a scenario where candidates must obtain a solid, liquid and gas sample. The equipment available to the Authority Having Jurisdiction (AHJ) must be able to support this evaluation. The proctor has the flexibility to choose a single colorimetric device (e.g., tubes, chips, papers, strips, reagents). Candidates must also demonstrate proficiency and understanding of the use of a 4-gas meter, PID, radiation detection/monitoring equipment and thermal detection equipment (e.g. Thermal Imaging Camera (TIC) or temperature heat gun).

Inspect, Test, Maintain, and Document Chemical Protective Clothing

Standard: 11.4.2 NFPA 470, 2022 Edition	Tasks: Inspect, test, maintain, and document serviceability.	chemic	al prote	ctive clo	othing	
Performance Outcome	The candidate, given adequate PPE and equipment for PPE maintenance, will demonstrate their ability to inspect, test, and document the maintenance of protective clothing.					
Equipment Required: Apparand other manufacturer's required	ropriate PPE, manufacture instructions, PPE leuired equipment.	og form	s, press	sure test	kit	
Critical Skills are identified failure of the entire Skill Sheet	by a bold type "C". Any critical skill that is n	ot comp	oleted is	conside	ered a	
	grounds for automatic failure. All proctors pre	sent sha	ıll revie	ew the		
		Ini	tial	Ret	est	
STEPS FO	OR SKILL COMPLETION	Yes	No	Yes	No	
Inspection						
1. Ensure the suit's service						
	e interior and exterior of the suit looking for					
damage or defects.						
3. Visually inspect the suit	t for any changes to the suit material.					
4. Check to ensure the zip	per functions correctly.					
5. Check the function of a	ll valves.					
Testing (Pressure Test)						
C 6. Test suit according to m	nanufacturer's recommendations.					
Documentation			-		_	
C 7. Document all findings of defects or malfunctions	during the inspection and remove any suits with from service.					
8. Return to proper storage	2.					
Total		Score	needed	to pass	7	
Candidate Name	Candidate Signature			— Da	te	
Proctor Name	Proctor Signature					

Retest Proctor Signature

Retest Proctor Name

Don, Work In, and Decon Wearing Liquid Splash Protection Clothing

Standard: 11.2.2; 11.3.2;	Tasks: Select, inspect, don and work in a			duct co	ntrol of
11.4.2	a liquid, undergo technical decontaminati	on, and doff	PPE.		
NFPA 470, 2022 Edition					
Performance Outcome	The candidate will select appropriate PPE undergo technical decontamination.	c, correctly d	on, wor	k in, and	d
Tanàna ant Dagaine de Lieu	Select, inspect and use PPE, select and use equipment; control leaks on containers and plugging, sealing closures, remote valves repositioning container; replace missing partitings); decontaminate tools and equipment; and requirements for reporting operations.	d their closus that off, closical olders, and tige ent; inspect of and docum	res (pating valve) The part of	tching, yes, g loose intain to product	ols and
	o for simulated product release.	contaminati	on equi	pment,	an
Critical Skills are identified failure of the entire Skill Sheet	by a bold type "C". Any critical skill tha	t is not comp	leted is	conside	ered a
	grounds for automatic failure. All proctor	s present sha	ıll revie	ew the	
		Ini	itial	Ret	test
	OR SKILL COMPLETION	Yes	No	Yes	No
	E for the situation/scenario given.				
2. Don liquid-splash PPE					
3. Perform pre-entry chec					
C 4. Perform product control 5. Undergo technical dec	ol and any other given work assignment.				
6. Doff PPE appropriatel					
o. Boll II L appropriatel	y.				
Total		Score	needed	to pass	5
Candidate Name	Candidate Signature	1		— — Da	ıte
Proctor Name	Proctor Signature				

Retest Proctor Name	Retest Proctor Signature

Don, Work In, and Decon Wearing Vapor Protective Clothing

Standard: 11.2.2; 11.3.2; 11.4.2 NFPA 470, 2022 Edition	Tasks: Select, inspect, don and work is control of a gas, undergo technical decoprotective clothing.				oduct
Performance Outcome Equipment Required: Var	The candidate, given PPE, an SCBA, and don, work in and undergo technical deceppe. Select, inspect and use PPE, select and requipment; control leaks on containers a plugging, sealing closures, remote valve repositioning container; replace missing decontaminate tools and equipment; insequipment; and requirements for reportion operations.	on while wearing use approved cand their closure shutoff, closing plugs, and tigpect and mainting and docum	ontrol ares (pateng valve hten lootain tool	agents ar ching, es, ose fittin ls and	etion nd ngs);
assignment/scenario and proj	p for simulated product release.				
Critical Skills are identified failure of the entire Skill Shee	by a bold type "C". Any critical skill the	nat is not comp	leted is	conside	red a
	grounds for automatic failure. All procto	ors present sha	11 revie	w the	
safety violation.	grounds for automatic fundre. This proces	oro present sna	.11 10 110	*** ***	
			tial	Ret	est
	OR SKILL COMPLETION	Ini Yes	itial No	Ret Yes	est No
C 1. Choose the correct PP	OR SKILL COMPLETION E for the situation/scenario given.		1		
C 1. Choose the correct PP. 2. Don vapor PPE.	E for the situation/scenario given.		1		
C 1. Choose the correct PP. 2. Don vapor PPE. 3. Perform pre-entry che	E for the situation/scenario given.		1		
C 1. Choose the correct PP: 2. Don vapor PPE. 3. Perform pre-entry checces. C 4. Perform given work as	E for the situation/scenario given. cks. ssignment.		1		1
C 1. Choose the correct PP. 2. Don vapor PPE. 3. Perform pre-entry checomology of the correct PP. 4. Perform given work as 5. Undergo technical decomology.	E for the situation/scenario given. cks. ssignment. ontamination.		1		1
C 1. Choose the correct PP: 2. Don vapor PPE. 3. Perform pre-entry checces. C 4. Perform given work as	E for the situation/scenario given. cks. ssignment. ontamination.		1		1
C 1. Choose the correct PP. 2. Don vapor PPE. 3. Perform pre-entry checces C 4. Perform given work as 5. Undergo technical decompositions.	E for the situation/scenario given. cks. ssignment. ontamination.	Yes	1	Yes	1
C 1. Choose the correct PP. 2. Don vapor PPE. 3. Perform pre-entry checomology of the correct PP. 4. Perform given work as 5. Undergo technical decomology of the correct PP. 5. Undergo technical decomology of the correct PP. 6. Doff PPE appropriately	E for the situation/scenario given. cks. ssignment. ontamination.	Yes	No	Yes	No

Retest Proctor Name

Retest Proctor Signature

Perform Mass Decon on Ambulatory and Non-ambulatory Victims

04 1 1 44 2 2 44 4 7 7	mul p c	1 4	1	1 1 .	• .•	
Standard: 11.3.3, 11.4.5.1 NFPA 470, 2022 Edition	Tasks: Perform mass decon on ambu	ılatory an	d non-an	nbulatory	victims.	
Performance Outcome	and applicable equipment, will demonst	The candidate, working as a member of a group and given adequate PPE and applicable equipment, will demonstrate how to perform mass decontamination on ambulatory and non-ambulatory victims.				
	propriate PPE, hose lines, fog nozzle(s), e, backboard or litter, bags and tags for p				dence.	
failure of the entire Skill Shee						
Safety: A safety violation is safety violation.	s grounds for automatic failure. All proce	tors prese	nt shall re	eview the		
		Ini	itial	Re	test	
STEPS FOR	SKILL COMPLETION	Yes	No	Yes	No	
C 1. Ensure proper decont minimize hazards.	amination method has been chosen to					
performing mass dec	nders are wearing appropriate PPE for ontamination operations.					
non-ambulatory deco	tamination corridor for ambulatory and ontamination in an adequate location.					
	oulatory victims to a wash area of the ion on appropriate backboard/litter					
C 5. Decontaminate as req	uired and safeguard personal belongings.					
6. Remove victim's clot	thing and wash entire body using appropriate equipment.					
7. Transfer the victims f medical evaluation. 8. Discuss Safety preca 9. Termination of Mass	from the wash and rinse stations for autions and crowd control methods.					
10. Complete required re	eports and supporting documentation.	+				
Total		Scor	e needed to	o pass	9	
Candidate Name	Candidate Signature	_		I	Date	
Proctor Name	Proctor Signature				_	

Retest Proctor Name	Retest Proctor Signature

$\label{thm:condition} \textbf{Perform Technical Decon on Entry Team Members and Ambulatory and Non-ambulatory Victims}$

Standard: 11.3.3, 11.4.5.2 NFPA 470, 2022 Edition	Tasks: Perform technical decon on entry team members and ambulatory and non-ambulatory victims.				
Performance Outcome	The candidate, working as a member of a group and given adequate PPE and applicable equipment, will demonstrate how to perform technical decontamination on ambulatory and non-ambulatory victims.				
monitoring/detection device, s	ropriate PPE, hose lines, fog nozzle(s), sponges, brushes, backboard or litter, ba				
and/or evidence. Critical Skills are identified I failure of the entire Skill Sheet.	by a bold type "C Any critical skill that i	s not cor	npleted is	consider	ed a
	rounds for automatic failure. All procto			eview the	
STEPS FOR S	SKILL COMPLETION	Yes	itial No	Yes	test No
	nination method has been chosen to	Tes	NU	Tes	INO
2. Ensure that all responde	ers are wearing appropriate PPE for econtamination operations.				
and non-ambulatory de	ontamination corridor for ambulatory contamination in an adequate location.				
	atory victims to a wash area of the non an appropriate backboard/litter				
C 5. Decontaminate as requiand items.	red, and safeguard personal belongings				
handheld hoses, sponge	ash each victim's entire body using es, and/or brushes and then rinse.				
evaluation.	the wash and rinse stations for medical				
7 1	ons and crowd control methods.				
9. Termination of technic	al decon operations. orts and supporting documentation.				
Total	and white supporting accommendation	g	1.14		0
Total		Scor	e needed t	o pass	9
Candidate Name	Candidate Signature			Г	Date
Proctor Name	Proctor Signature				_

Retest Proctor Name	Retest Proctor Signature

Plug and Patch a Leaking Container

Standard: 11.2.3; 11.2.4; 11.3.2; 11.4.3.1; 11.4.3.2 NFPA 470, 2022 Edition	Tasks: Plug and p	atch a leaking container.				
Performance Outcome		select appropriate PPE and to and patch a leaking container		will d	emonst	rate
Equipment Required: App hand tools.	ropriate PPE, pluggi	ng and patching kits, contain	er with	holes	, additi	onal
failure of the entire Skill Sheet		Any critical skill that is not o				ed a
Safety: A safety violation is safety violation.	grounds for automat	ic failure. All proctors presen	it shall	review	the	
			Ini	tial	Ret	est
STEPS I	OR SKILL COMP	LETION	Yes	No	Yes	No
Ensure proper production container is evaluated						
_	erforming plugging a	control function are wearing and patching operations and cted.				
3. Select a location to ef communicate the con	ficiently and safely p dition of the containe	erform the operation(s) and er to the IC.				
4. Avoid direct contact v		aterial.				
5. Determine the locatio	n of the leak.					
6. Attempt to position couppermost position.	ontainer so that the lo	cation of leak is in the				
7. Use the proper tools a 8. Decon tools and equi		trol, plug and patch the leak.				
supporting documents	-	equired reports and				
Total			Score	needed	to pass	7
		_				
Candidate Name	Car	ndidate Signature			Date	e
Proctor Name	Pro	octor Signature				

Retest Proctor Name	Retest Proctor Signature

Control a Leak from a Pressurized Container

Standard: 11.2.3; 11.2.4;	Tasks: Apply appropriate leak control measur	es to st	on the	flow of	•
11.3.2; 11.4.3.1; 11.4.3.2	product from a leaking pressurized container.	es to su	op me	HOW OI	
NFPA 470, 2022 Edition	product from a teaking pressurized container.				
11F1 A 470, 2022 Edition					
Performance Outcome	The candidate shall select appropriate PPE and to	ools and	l will c	orrectly	,
1 criormance Outcome	demonstrate how to stop the flow of product from			-	
	demonstrate now to stop the now of product not	II a Icak	ing co	mamici.	
Equipment Required: An	propriate PPE, tools and equipment for controlling	ισ a leal	k simi	ılated	
	bles and additional hand tools.	ig a ica	к, зпп	arated	
pressurized container with its	ores and additional name tools.				
Critical Skills are identified	by a bold type "C". Any critical skill that is not	comple	ted is c	onsider	ed a
failure of the entire Skill Shee		- ompre			
Safety: A safety violation is	grounds for automatic failure. All proctors presen	nt shall	review	y the	
safety violation.	grounds for automatic fundrer fin process presen	or silen	10,10,		
		Ini	tial	Ret	ost
STEPS I	FOR SKILL COMPLETION	Yes	No	Yes	No
	t control technique is chosen.	TCS	110	100	110
	ders involved in the control function are wearing				
_	product control and that appropriate tools and				
equipment have been					
	ficiently and safely perform the operation.				
	with the hazardous material.				
5. Determine the location					
	ontainer to best control the leak.				
C 7. Control the leak.	ontainer to best control the reak.				
	ports and supporting documentation.				
or complete requires re	porter and supporting documentation.				
Total		Score	needed	to pass	7
 					
Candidate Name	Candidate Signature			Date	a
Candidate Name	Candidate Signature			Date	e
Candidate Name	Candidate Signature			Date	e
				Date	e
Candidate Name Proctor Name	Candidate Signature Proctor Signature			Date	e

Retest Proctor Name

Retest Proctor Signature

Ground and Bond and Liquid Product Transfer from a Non-pressure Container

Standard: 11.2.3; 11.2.4; 11.2.5; 11.3.2; 11.4.3.4 NFPA 470, 2022 Edition	Tasks: Ground and bond non-pressurized of transfer operation involving a leaking non-					
Performance Outcome	The candidate shall select appropriate PPE & tools. Given a leaking container and a scenario, candidate will correctly ground and bond and conduct a liquid transfer operation.					
	equate PPE, a hazardous materials scenario, a nding equipment and appropriate tools and eq	_		iner, rec	overy	
Critical Skills are identified failure of the entire Skill Shee	by a bold type "C". Any critical skill that is a	not com	pleted	is consid	dered a	
Safety: A safety violation is safety violation.	grounds for automatic failure. All proctors pro	esent sl	hall rev	iew the		
	Initial Retest					
STEPS FO	STEPS FOR SKILL COMPLETION Yes No Yes No				No	
1. Assess container condition						

	Initial Rete		nitial Retest	
STEPS FOR SKILL COMPLETION	Yes	No	Yes	No
1. Assess container condition				
2. Ensure proper product control technique is chosen.				
3. Ensure that all responders involved in the control function are				
wearing appropriate PPE & appropriate hand tools are selected.				
4. Air monitoring established.				
5. Select a location to efficiently& safely perform grounding/bonding.				
6. Establish ground field.				
NOTE: Check resistance between grounding rod and earth.				
C 7. Ground the containers.				
8. Bond the containers.				
NOTE: Check resistance between bonding clamp and container.				
9. Ensure recovery container is compatible with liquid product.				
C 10. Use approved liquid transfer method and transfer product to recovery				
container and suppress vapors.				
11. Inspect and decon tools; complete required reports & documentation.				
Total	Score	needed	to pass	10
			Pubb	

Candidate Name	Candidate Signature	Date
Proctor Name	Proctor Signature	

Retest Proctor Name	Retest Proctor Signature	

Remote Valve Shutoff/Emergency Shutoff Device

candidate shall select appropriate attention to the equipment correctly. The PPE, prop with emergency remoded type "C". Any critical skill to the for automatic failure. All process the state of the s	note shut that is not	off device complete	ce. ted is c		
te PPE, prop with emergency rended type "C". Any critical skill to the for automatic failure. All processing the state of the complete	note shut that is not	off device complete	ce. ted is c		
te PPE, prop with emergency rended type "C". Any critical skill to the for automatic failure. All processing the state of the complete	note shut that is not	off device complete	ce. ted is c		
te PPE, prop with emergency rended type "C". Any critical skill to the for automatic failure. All processing the state of the complete	note shut that is not	off device complete	ce. ted is c		
te PPE, prop with emergency rended type "C". Any critical skill to the for automatic failure. All processing the state of the complete	note shut that is not	off device complete	ce. ted is c		
te PPE, prop with emergency rended type "C". Any critical skill to the for automatic failure. All processing the state of the complete	note shut that is not	off device complete	ce. ted is c		
te PPE, prop with emergency rended type "C". Any critical skill to the for automatic failure. All processing the state of the complete	note shut that is not	off device complete	ce. ted is c		
te PPE, prop with emergency renold type "C". Any critical skill to the for automatic failure. All processing the street of the complete of the street of the process of the street of the process of the	that is not	completent shall	ted is c	onsider	ed a
old type "C". Any critical skill to dis for automatic failure. All processible to the completion of th	that is not	completent shall	ted is c	onsider	ed a
ds for automatic failure. All processions for automatic failure. All processions for automatic failure.		ent shall		onsider	ed a
KILL COMPLETION	tors prese	1	review		cu a
KILL COMPLETION	tors prese	1	review	-	
		_		the the	
		Ini		Ret	
d technique is chosen		Yes	No	Yes	No
 Ensure proper product control technique is chosen. Ensure that all responders involved in control functions are wearing 					
appropriate PPE for performing remote valve shutoff operations.					
3. Identify and locate the emergency remote control valve and/or emergency shutoff device.					
alve and/or emergency shutoff dev	rice				
are and of emergency shatoff dev					
complete required reports and sup	porting				
1 1 1	1 0				
		Score	needed	to pass	4
	ency remote control valve and/or		ency remote control valve and/or alve and/or emergency shutoff device complete required reports and supporting	ency remote control valve and/or alve and/or emergency shutoff device complete required reports and supporting	ency remote control valve and/or alve and/or emergency shutoff device

Tighten or Close Leaking Valves, Packing Glands, and/or Fittings

Standard: 11.2.3; 11.2.4; 11.3.2; 11.4.3.1; 11.4.3.2 NFPA 470, 2022 Edition	Tasks: Tighten or close leaking valves, closures, packing glands, and/or fittings.					
Performance Outcome	The candidate shall select appropriate PPE, tools and equipment and will correctly tighten or close the object given in the scenario.					
Equipment Required: App a leaking valve, closure, pack	ropriate PPE, a hazardous materials scer king gland, or fitting.	nario, a co	ontainer	prop with	either	
failure of the entire Skill Sheet					ered a	
Safety: A safety violation is safety violation.	grounds for automatic failure. All procto					
	CIZIL I COMPLETION		itial		Retest	
	SKILL COMPLETION	Yes	No	Yes	No	
-	lers involved in the control function are					
wearing appropriate PPE and that appropriate hand tools have been selected.						
2. Select a location to efficiently and safely perform tightening of						
closing operations.	reversity unit curery personal inglifering of					
<u> </u>	rom container if possible.					
4. Attempt to position co uppermost position.	ntainer so that valve or leak is in the					
C 5. Tighten or close leaking and/or fittings as appro	ng valves, closures, packing glands, opriate.					
Total		Scor	e needed t	to pass	4	
				•	1	
Candidate Name	Candidate Signature			D	ate	
Proctor Name	Proctor Signature					
Retest Proctor Name	Retest Proctor Signature					

Dome Clamp

Standard: 11.3.2; 11.4.3.2 NFPA 470, 2022 Edition	Tasks: Apply a dome clamp.					
Performance Outcome	The candidate shall demonstrate the ability to control liquid leaks on an MC-306/DOT 406 training dome by properly applying a dome clamp.					
Equipment Required: Adea	quate PPE, dome clamp, MC-306/DOT 406	simulator	•			
Critical Skills are identified failure of the entire Skill Sheet	by a bold type "C". Any critical skill that is	not comp	leted is	conside	red a	
Safety: A safety violation is g safety violation.	grounds for automatic failure. All proctors pr	esent sha	ll revie	w the		
		Ini	tial	Ret	est	
STEPS FO	OR SKILL COMPLETION	Yes	No	Yes	No	
	by using markings or other resources.					
2. Identify precautions for fire control.						
3. Approach the simulator safely.						
4. Eliminate ignition sources.						
	and properly apply dome clamp.					
6. Evaluate the effective	eness of control functions.					
Total		Score	needed	to pass	5	
Candidate Name	Candidate Signature			— — Da	te	
Proctor Name	Proctor Signature					
Retest Proctor Name	Retest Proctor Signature					

Overpack a Nonbulk Container and/or Radioactive Materials Package

Standard: 11.3.2; 11.4.3.3 Tasks: Overpack a nonbulk container and/or radioactive materials package.					
Performance Outcome	The candidate shall select appropriate PPE and e	quipme	nt and	will cor	rectly
	overpack the container. Note: The slide-in, rolling slide-in, or slip-over in	methods	should	d all be	
	taught, however, only one needs to be tested.	nemous	Shour	a un oc	
	quate PPE, container or package, overpack conta	ainer, co	ntaine	r handl	ling
equipment, labeling equipme	by a bold type "C". Any critical skill that is not	20mn121	tad is a	ongidar	ed a
failure of the entire Skill Shee		comple	icu is c	onsidei	eu a
Safety: A safety violation is	grounds for automatic failure. All proctors prese	nt shall	review	the	
safety violation.					
		Ini		Ret	
	FOR SKILL COMPLETION	Yes	No	Yes	No
	ders involved in the control function are wearing				
appropriate PPE for performing overpacking operations and that					
appropriate hand tools have been selected.					
	iciently and safely perform the overpacking				
	vith the hazardous material to the extent possible, he patched container or package.				
safe lifting techniques					
6. Properly overpack th					
	el the overpack container. # and name of material to mark 5.				
8. Inspect and decon too documentation	ols; complete required reports and supporting				
Total		Score	needed	to pass	7
Candidate Name	Candidate Signature			Date	e
Proctor Name	Proctor Signature				

Retest Proctor Name	Retest Proctor Signature

Perform, Evaluate and Terminate a Hazardous Materials Incident

Standard: 11.5.1; 11.6.1 NFPA 470, 2022 Edition	Tasks: Perform, evaluate and terminate a hazardous material incident based off the prepared hazmat IAP.					
Performance Outcome	The candidate, given a completed hazmat IAP will perform, evaluate and terminate a hazardous material incident.					
Equipment Required: Compequipment, reporting and reco	pleted site safety plan from Skill Sheet #1, apporting documents.	proved	commu	ınicatioı	ıs	
failure of the entire Skill Sheet.					red a	
Safety: A safety violation is g safety violation.	grounds for automatic failure. All proctors pres	sent sha	ll revie	w the		
STEPS FO	Ini Yes	tial No	Ret Yes	est No		
Perform assigned duties organization (May utile 2. Communicate observation Director/Supervisor, I Commander. Compare actual behave behavior. Determine effectiveness accomplishing respon	es in the Hazardous Materials Branch or group lize any skill sheet scenario from 9 - 15). tions to Hazardous Materials Branch CS operations section chief, or Incident for of material and container to predicted as of response options and actions in se objectives. Ins and discuss and evaluate effectiveness and		needed		5	
Candidate Name	Candidate Signature			— — Da	te	
Proctor Name	Proctor Signature					
Retest Proctor Name	Retest Proctor Signature					

Victim Rescue and Recovery

Standard: 11.3.2; 11.4.4.2 NFPA 470, 2022 Edition	Tasks: Perform rescue or recovery operations at a hazardous materials/WMD event.				
Performance Outcome	The candidate, given a scenario involving a hazardous materials/WMD incident and exposed or contaminated victims, shall perform rescue and/or recovery operations of a line-of-sight non-ambulatory victim or victims.				
Equipment Required: Appr rescue/recovery equipment an	opriate emergency response plan or SOP's, pred tools.	roper P	PE, app	propriate)
Critical Skills are identified I failure of the entire Skill Sheet.	by a bold type "C". Any critical skill that is no	ot comp	leted is	conside	red a
Safety: A safety violation is g safety violation.	rounds for automatic failure. All proctors pres	sent sha	ll revie	w the	
		Ini	tial	Ret	est
	R SKILL COMPLETION	Yes	No	Yes	No
place.	emergency response plan or SOP's are in				
2. Determine if victim res	scue vs victim recovery.				
3. Determine appropriate	PPE, equipment and tools to be used.				
4. Victims are prioritized, triaged and transferred to decon, casualty collection point, area of safe refuge or medical in accordance with the IAP.					
5. Proper search and rescrisors.	ue/recovery techniques utilized based on AHJ				
tools is performed base	all victims, rescue personnel, equipment and ed on AJH SOP's.				
7. Complete required repo	orts and supporting documentation.				
Total		Score	needed	to pass	6
Candidate Name	Candidate Signature			— Da	te
Proctor Name	Proctor Signature				
Retest Proctor Name	Retest Proctor Signature				

Rescue an Incapacitated Entry Team Member

Standard: 11.3.2; 11.4.4.1	Tasks: Perform a rescue of an incapacitat	ed Entry Te	am M	ember.	
NFPA 470, 2022 Edition					
Performance Outcome	The candidate, as a member of a backup team shall, given a scenario nvolving a hazardous materials/WMD incident and an incapacitated En Γeam Member, perform a rescue from the hot zone.				
Equipment Required: Apprescue equipment and tools.	ropriate emergency response plan or SOP's	, appropriat	e PPE,	approp	riate
	by a bold type "C". Any critical skill that is	s not comple	ted is o	consider	ed a
Safety: A safety violation is safety violation.	grounds for automatic failure. All proctors p	oresent shall	reviev	v the	
		In	itial	Ret	est
STEPS I	OR SKILL COMPLETION	Yes	No	Yes	No
	e emergency response plan or SOP's are in pla	ace.			
	te PPE, equipment and tools to be used.				
3. Appropriate search a SOP's.	and rescue techniques are used based on AH	IJ			
4. Appropriate emergen	cy communications are used.				
5. Team Member is ren	noved from the Hot Zone and taken to deco	n.			
6. Appropriate emerge are used on the affective are used on the affective are used to the affect	ncy doffing and emergency decon technique ted Team Member.	es			
7. Complete required r	eports and supporting documentation.				
Total		Score	needed	to pass	6
Candidate Name	Candidate Signature			Date	e
Proctor Name	Proctor Signature				
Retest Proctor Name	Retest Proctor Signature				