

**Attention: All certification candidates are required to have an established and up to date user portal account in the PA State Fire Academy's Acadis Learning Management System prior to participating in <u>ANY</u> certification testing opportunity. Please log in to your Acadis portal account and update all personal information before submitting your certification application. (Access can be gained through the OSFC website – <u>Training and Certification Portal</u>).

Hazardous Materials Operations – Skill Stations NFPA 470, 2022 Edition: Chapters 7

	General (Chapter 7)	
Station A	Planning the Response (7.1 to 7.3)	Mandatory
Station B	Implement the Planned Response (7.4 to 7.6)	Mandatory
Station C	Proceed through Emergency Decontamination (7.4 and 7.5)	Mandatory



STATION A – Planning the Response		Reference NFPA 470 – 2022 Edition, Chapter 7 Mandatory Station JPRs 7.2.1, 7.3.1			
Test Site	Test Date	Candidate #	Check the Test Type		
			Rnitial	Retest	

Evaluator Note: Scenario chosen MUST be marked at the top of the task list

Directions: Given a hazardous materials scenario at either a fixed facility, in a transportation setting, or at a pipeline along with AHJ SOPs, reference materials and a facility representative, the candidate must analyze one of the scenarios and identify potential hazards, response objectives and action options for the incident, select and implement a response consistent with the emergency response plan to include: scene control, emergency/gross decontamination, and evidence preservation, while communicating the response status through the chain-of-command.

Performance Outcome: Pass / Fail is determined by **ALL** of the tasks being correctly performed.

No.	Tasks	Yes	No
	Check Scenario - Fixed Facility: Transportation: Pipeline:		
Fixed	Facility		
1	Identify type of facility and container		
2	Meet with facility representative to determine location of incident and access to incident		
Trans	sportation		
1	Identify type(s) of container(s)		
2	Identify type of spill or leak and ensure that they are located upwind, uphill, and upstream as appropriate		
Pipeli	ne		
1	Identify pipeline incident and where to find contact information		
2	Communicate to pipeline operator or carrier relaying appropriate information and obtaining relevant information		
All Sc	enarios		
3	Collect and determine hazard information from approved reference sources		
4	Describe any potential behavior of materials, containers, or pipelines		
5	Describe likely outcomes associated with identified behavior and surrounding conditions		
6	Identify strategies based on the scope of the incident and available resources		
7	Identify tactics based on response objectives and available resources		
8	Identify safety precautions for the incident, including EM Decon methods		
9	Determine if available PPE is appropriate for the incident		<u> </u>
10	Complete incident Size up		<u> </u>
	Please indicate skill outcome	PASS	FAIL
Evalua	tor Comments:		
Evalua	tor Signature: Evaluator #:		



STATION B – Implement the Planned Response		Reference NFPA 470 – 2022 Edition, Chapter 7 Mandatory Station JPRs 7.4.1, 7.5.1, 7.6.1			
Test Site Test Date		Candidate #	Check the Test Type		
			InitialRetest		

Evaluator's Note: The evaluator may need to assist the candidate in setting up site control barriers.

Directions: Given a scenario and incident action plan involving a hazardous material and/or WMD materials, the candidate will establish ICS, interpret information and implement a response to include the following tasks; scene control, emergency decontamination and evidence preservation.

Performance Outcome: Pass / Fail is determined by **ALL** of the tasks being correctly performed.

No.	Tasks	Yes	No			
	Emergency Decontamination performed on Responder Victim					
1	Establishes control zones and physically secures site, denies entry using barrier tape, barricades or posting a guard					
2	Candidate implements and communicates at all levels of the established ICS					
3	Control Efforts: considers wind direction, water spray and run off					
4	 Selects appropriate PPE Verbalizes safety and emergency procedures based on the level of PPE used Dons and Doffs selected PPE 					
5	Instructs the individual to the proper emergency/gross DECON location					
6	Sets nozzle to a low flow, narrow fog OR sets up gross wash in DECON corridor					
7	Holds nozzle above responder/victim's head					
8	Instructs individual to properly position themselves to complete the DECON process properly flush under arms, the groin area flushed feet while victim moves to a safe area for medical evaluation. [Flushing / gross wash time is dependent on the type of contamination.]					
9	Evaluate the effectiveness of decontamination using appropriate monitoring/detection method					
10	Evaluates scenario for progress and records/reports upline observations: identifies evidence / possible evidence and if evidence disturbed and how if evidence was moved notes where, how, why assesses effectiveness of operations / conditions for withdrawal documents personnel / activities associated with the incident					
11	Completes all tasks without compromising personal or team safety					
	Please indicate skill outcome	PASS	FAIL			
Evalua	tor Comments:					
Evalua	tor Signature: Evaluator #:					



STATION C: Proceed Through Emergency Decontamination		Reference NFPA 470 – 2022 Edition, Chapter 7 Mandatory Station JPR 7.4.1			
Test Site	Test Date	Candidate #	Check the Test Type		
			InitialF	Retest	

Evaluator's Note: In conjunction with Skill B, candidates for skill C will proceed through the emergency decontamination station set up in skill B.

Directions: Given a hazardous materials scenario, AHJ SOPs, appropriate Structural Firefighting PPE, charged hoseline and water supply, decontamination equipment (i.e., fans, brushes, vacuums, garbage bags, etc.), the candidate will go through decontamination procedures while wearing and doffing approved PPE. Do you have any questions?

Performance Outcome: Pass/ Fail is determined by **ALL** of the tasks being correctly performed.

NIa	Toolea	Vac	No
No.	Tasks	Yes	No
1	Proceed to decontamination line		
2	Place tools and equipment in the designated area for decon.		
3	Proceed through decontamination line as directed by decon crew		
4	Doff PPE while continuing to breathe air from SCBA. a) Remove helmet and hood (slide hood over face mask to airline). b) Remove turnout coat and outer gloves. c) Roll turnout pants down with clean side out, and step out of boots. d) Remove SCBA facepiece, shut off the cylinder valve, and disarm PASS. e) Remove and dispose inner gloves. NOTE: A helper may be used to doff PPE.		
5	Wash, using soap and water or disposable towels to clean the head, face, neck, hands, and wrists before moving to the medical monitoring area.		
6	Using the appropriate forms/reporting procedures candidate notes/reports any abnormal findings during testing/inspection of PPE		
7	Ensure appropriate disposal or decon of PPE.		
	Please indicate skill outcome	PASS	FAIL
Evalua	ator Comments:		
Evalua	ator Signature: Evaluator #:		



PSFA Hazmat OPS Hazmat Tactical Worksheet

Incident Location:	Time: Date:
Site Rep:	Contact:
ICP Location:	
LIFE SAFETY	PRODUCT INFORMATION ERG Guide Page #:
Primary Search	Product Name:UN ID#
Evacuation	Solid Liquid Gas Quantity
Site Access Control	Reacts with water Water Soluble Inhalation Hazard
Secondary Search	Specific Gravity Vapor Density Vapor Pressure
Medical Unit	TLV/Ceiling IDLH REL Boiling Point
Decontamination	Freezing Point Flash Point LELUEL
Rehab	PPE
	Respiratory Protection
NFPA 704	DOT Placard Hazard ID Numbers
NFPA 704	DOT Placard Hazard ID Numbers
NFPA 704 Container Information	Meather Information Hazard ID Numbers Hazard ID Numbers
Container Information	Weather Information Resources on Scene
Container Information Pressure	Weather Information Resources on Scene Temp
Container Information Pressure Non-Pressure	Weather Information Resources on Scene Temp — Humidity — Wind Speed —



PSFA Hazmat OPS Hazmat Tactical Worksheet

Air Readings at Command Post								
Initial Readings	and at 5-min	ute interva	als					
Date								
Time	O ₂	% co	ppm	LEL	96	H ₂ S	ppm HCNpp	m
Time	O ₂		ppm				ppm HCNpp	
Time	O ₂	% co	ppm	LEL	%	H ₂ S	ppm HCNpp	m
Time	O ₂		ppm				ppm HCNpp	
Time	O ₂	% co	ppm	LEL	%		ppm HCNpp	m
Time	O ₂	_% CO_	ppm	LEL	%	H₂S	ppm HCNpp	m
Time	O ₂		ppm	LEL	%	H₂S	ppm HCNpp	
Time	O ₂		ppm	LEL	%	H₂S	ppm HCNpp	m
Time	O ₂		ppm			H₂S	ppm HCNpp	m
Time	O ₂		ppm			H₂S	ppm HCNpp	m
Time	O ₂	_% CO_	ppm				ppm HCNpp	
Time	O ₂		ppm				ppm HCNpp	
Time	O ₂		ppm				ppm HCNpp	
Time	O ₂		ppm				ppm HCNpp	
Time	O ₂		ppm				ppm HCNpp	m
		Attach add	ditional she	ets if <u>ne</u>	cessary			
		AC	TIONS	TAKEN	1			
Rescue			Em Decon		_		Oil Dry	
Evacuation		_	Pads		Hazmat Unit			
Isolation Zone			Booms		None			
Air Monitoring		_	Booms Dam/Dike/Divert		Other			
Deny Entry			Retain				Other	
Deny chu y		_	Netalli					
		Incic	lent Comma	nder		Г	Liaison Officer	
		Incic	ient comma	nuer			Liaison Officer	
							Safety Officer	
Operations					_	H		
	Stagin	g Area Manag	ger			- 1 ⊨		
	-					Ц	PIO	
		r .						
Hazmat Brach Superv	risor HM Sa	rety						
	_							
<u> </u>								
		Planning		Logis	tics		Finance/Admin	
L								
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February 2025

PENNSYLVANIA STATE FIRE ACADEMY HAZARDOUS MATERIALS OPERATIONS NFPA 470 – 2022 Edition

PSFA Hazmat OPS Hazmat Tactical Worksheet

Site Sketch

Situation Summary and Health and Safety Briefing Information:	
Current and Planned Objectives:	



PSFA Hazmat OPS Hazmat Tactical Worksheet

Additional Information or NOTES



February 2025

PENNSYLVANIA STATE FIRE ACADEMY HAZARDOUS MATERIALS OPERATIONS NFPA 470 – 2022 Edition

Hazardous Materials Dilution Worksheet and Report

Product/Material spilled		
Product/Material solubility		
Amount of product/material spilled		gallons
pH Level of the product/material spilled		
pH level desired for dilution		pH
Amount of water to dilute product/material		gallons
Area to retain water is large enough?	YES	NO
Dilution decision	GO	NO-GO
Final pH of product/material after dilution		pH
Any product/material escape the retention area	YES	NO
Were Dilution operations successful	YES	NO
Report given to Command/IC/Operations?	YES	NO
Additional Notes/Comments:		
Report completed by:		





Pennsylvania State Fire Academy Personal Protective Equipment Inspection Checklist

USER Name	Inspection Date	\ ()
		1
		FIRE AC



Instructions:

- 1. This checklist shall be used for a structural firefighting ensemble only
- 2. Soiled or contaminated gear shall be cleaned prior to inspection

Definitions

- "Soiled" Soil easily transfers from one surface to another
- "Contamination" Presence of a visual or odorous foreign substance
- 3. Universal precautions shall be used if the gear is soiled or contaminated
- 4. The following inspection elements should not be considered all inclusive. In the event that you find something that requires further inspection, do not hesitate to have it inspected further
- 5. The inspection should in no way be interpreted as complying with the Advanced Inspection requirements established by NFPA 1851 Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensemble, 2014 edition
- 6. Place an X in the appropriate box (P)ass or (F)ail

Helmet Make:	Model:		el:	S/N:		
		Р	F		Р	F
Contamination				Suspension system		
Soiling				Damaged or missing reflective trim		
Shell Damage: Cracks, crazing, dents, abrasions or thermal damage				Liner Damage: Rips, tears, or thermal damage		
Damaged or missing components				Loss of Seam Integrity		

Eye Protection		
	P	F
Damaged or missing components to faceshield or goggle system		

Hood					
	Р	F		Р	F
Contamination			Rips, tears, cuts or thermal damage		
Soiling					
Loss of Face Opening adjustments / shrinkage			Loss of Seam Integrity; Broken or missing stitches		

Footwear Make: Model:					
	P	F		Р	F
Contamination			Rips, tears, punctures or thermal damage		
Soiling			Loss of water resistance		
Closure system damage					
Damaged or deformed safety toe, mid-sole, and shank			Loss of Seam Integrity; Broken or missing stitches		

Drag Rescue Device (DRD)					
	Р	F		Р	F
Contamination			Installed correctly		
Soiling					
Cuts, tears, punctures, splitting, or thermal	П		Loss of Seam Integrity; Broken or missing		
damage			stitches		



Contamination Soiling 2" Coat to Pants overlap	P	F		_	-
Soiling				Р	F
			Rips, cuts, tears, or thermal damage		
2" Coat to Pants overlap			Correctly assembled		
Damaged or missing hardware and closure system			Loss of Seam Integrity; Broken or missing stitches		
Pants – Make:	Мо	de	I: S/N:		
	P	F		Р	F
Contamination			Rips, cuts, tears, or thermal damage		
Soiling			Correctly assembled		L
Damaged or missing hardware and closure system			Loss of Seam Integrity; Broken or missing stitches		
Gloves		_		_	\equiv
	P	F		P	F
Contamination			Rips, cuts, tears, or thermal damage		L
Soiling			Inverted liner		
Shrinkage			Loss of elasticity and flexibility		\perp
		l	oss of Seam Integrity; Broken or missing stitches		
Interfere Comments/items		-:	data and college)		_
Interface Components(items such	as Wi	risi F		Р	F
Contamination	P	₽°	Loss of effectiveness	P	╀
Soiling	+	+	Physical damage	+	+
Johnig		_	Loss of Seam Integrity; Broken or missing stitches	\vdash	+
COMMENTS:					
					_
ANY DAMAGE NOT INCLUDED IN THIS	CHEC	KLI	IST SHALL REQUIRE AN ADVANCED INSPECT	101	V
nspected by:	S	ign	ature:		



Operation of pressure relief

Fitting of wrists, ankles, neck



Pressurize gloves to check for pinholes
ENCAPSULATING SUITS

Check faceshield for

Cracks

Crazing Fogginess

PSFA Chemical Protective Clothing Inspection Form

Before Use Inspection Visual Inspection of CPC #									
Suit Size:	ze: Suit Material:								
Inspected by:									
Inspection Date:									
	Good	Unsat		Good	Unsat				
CLOTHING (CPC)									
Imperfect Seams			Stiffness						
Nonuniform Coatings			Evidence of chemical attach						
Tears			such as discoloration,						
Malfunctioning Closures			swelling, stiffening, softness						
Observe for cracks			Closure failure						
Observe for shelf deterioration			Tears						
Discoloration			Punctures						
Swelling			Seam discontinuities						
GLOVES									