



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

**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 ANY 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 – [Training and Certification Portal](#)).

**Hazardous Materials Operations – Skill Stations
NFPA 470, 2022 Edition: Chapter 9**

	Mission Specifics (Chapter 9)	
Station L	Mass DECON & Victim Recovery (9.3) & (9.8)	Optional



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

STATION L: Mass DECON & Victim Recovery		Reference NFPA 470 – 2022 Edition, Chapter 9 Mandatory Station JPRs 9.2.1, 9.3.1, 9.8.1	
Test Site	Test Date	Candidate #	Check the Test Type _____ Initial _____ Retest

Directions: Given a scenario, an incident action plan involving a HAZMAT and/or WMD materials, and working as part of a team, demonstrate your ability to set up and implement a mass decontamination operation for ambulatory and non-ambulatory victims; demonstrated victim triage, perform different victim rescue and/or recovery methods, and complete the appropriate documentation.

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

No.	Tasks	Yes	No
1	Establishes control zones and an Incident Command System (ICS)		
2	Physically secures the site, denies entry through use of barrier tape, barricades or posting of a guard		
3	Selects, Dons and Doffs appropriate PPE		
4	Determines victim rescue vs. recovery operation, selects the proper option and specialized equipment		
5	Verbalizes the importance of working with a technical specialist, allied professional, SOPs, or a response plan		
6	Verbalizes advantages and limitations of operations and method of mass DECON		
Ambulatory			
7	Candidate/team establishes a Mass DECON system for ambulatory victims and demonstrates the ability to perform decontamination ___ a. sets up the apparatus and/or available system appropriately ___ b. sets nozzle to appropriate pattern and pressure ___ c. properly instructs the victim out of the hot zone and into the DECON area line of site and non-line of site ___ d. flushes the contaminates from the victim and evaluates the effectiveness ___ e. triages victim and directs to an appropriate area for medical evaluation and/or treatment		
Walk Assist- Ambulatory Victim			
8	___ One Person ___ Two Persons (Choose One) a. Helps victim to standing position b. Slowly assist the victim to walk with coordinated movement c. Removes victim appropriately to a safe haven without further harm to the victim or themselves.		
Non-Ambulatory			
9	Candidate/team establishes Mass DECON system for non-ambulatory victims and demonstrated ability to perform a decontamination role ___ a. sets up the apparatus and/or available system appropriately ___ b. selects and uses specialized rescue equipment to evacuate victim from the hot zone into the DECON area line of site and non-line of site ___ c. flushes contaminate from victim while moving victim through the DECON Corridor and evaluates the effectiveness ___ d. triages victim and transports to appropriate area for medical evaluation and/or treatment		

Continued on Next Page



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

Continued from Previous Page
SKILL I: Mass Decon and Victim Recovery

STATION L: Mass DECON & Victim Recovery Continued		Reference NFPA 470 – 2022 Edition, Chapter 9 Mandatory Station JPRs 9.2.1, 9.3.1, 9.8.1	
Test Site	Test Date	Candidate #	Check the Test Type ____ Initial ____ Retest

	Perform A Carry		
10	At minimum candidate must perform one carry with and without equipment ___ Cradle-in-Arms ___ Two-Person Extremity ___ Two-Person Seat ___ Two-Person Chair a. Selects appropriate position for carry b. Walks slowly with coordinated movement c. Performs carry appropriately and removes victim to a safe haven without further harm to the victim or themselves		
	Perform a Drag		
11	At a minimum candidate must perform one drag with and without equipment ___ Blanket Drag ___ Webbing Sling Drag ___ Clothes Drag ___ One-Person Emergency Drag ___ Standing Drag ___ Firefighter Drag a. Positions themselves and victim appropriately. b. Selects and uses webbing or blanket appropriately for drag. c. Performs drag appropriately and removes victim to a safe-haven without further harm to the victim or themselves		
12	Completes the appropriate reporting forms detailing all decontamination activities		
13	Completes all tasks without compromising personal or team safety		
Please indicate skill outcome		PASS	FAIL

Evaluator Comments: _____

Evaluator Signature: _____ **Evaluator #:** _____

Hazardous Materials Decontamination Worksheet

Product/Material spilled _____

Product/Material solubility _____

Chemical water reactive YES NO

Decontamination method chosen _____

Decon Set Up Diagram

Number of Persons Decontaminated _____

Notes or Comments

Report completed by: _____



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

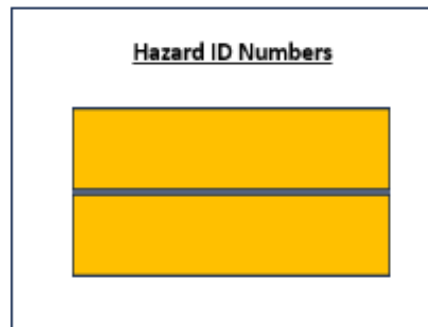
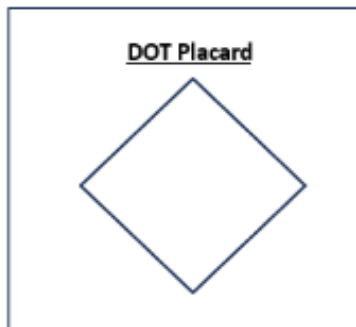
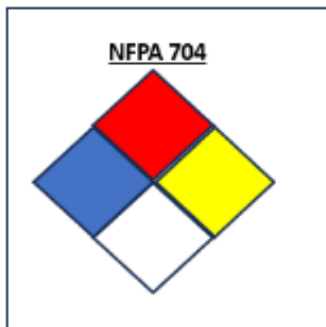
**PSFA Hazmat OPS
Hazmat Tactical Worksheet**

Incident Location: _____ Time: _____ Date: _____

Site Rep: _____ Contact: _____

ICP Location: _____

LIFE SAFETY __ Primary Search __ Evacuation __ Site Access Control __ Secondary Search __ Medical Unit __ Decontamination __ Rehab	PRODUCT INFORMATION	ERG Guide Page #: _____		
	Product Name: _____	UN ID# _____		
	Solid ___ Liquid ___ Gas ___	Quantity _____		
	Reacts with water ___	Water Soluble ___	Inhalation Hazard ___	
	Specific Gravity _____	Vapor Density _____	Vapor Pressure _____	
	TLV/Ceiling _____	IDLH _____	REL _____	Boiling Point _____
	Freezing Point _____	Flash Point _____	LEL _____	UEL _____
	PPE _____	Respiratory Protection _____		



Container Information

Pressure ___

Non-Pressure ___

Bulk ___ Shipping Papers ___

Transport ___ SDS _____

Other _____

Weather Information

Temp _____

Humidity _____

Wind Speed _____

Wind Direction _____

Resources on Scene



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

**PSFA Hazmat OPS
Hazmat Tactical Worksheet**

Air Readings at Command Post

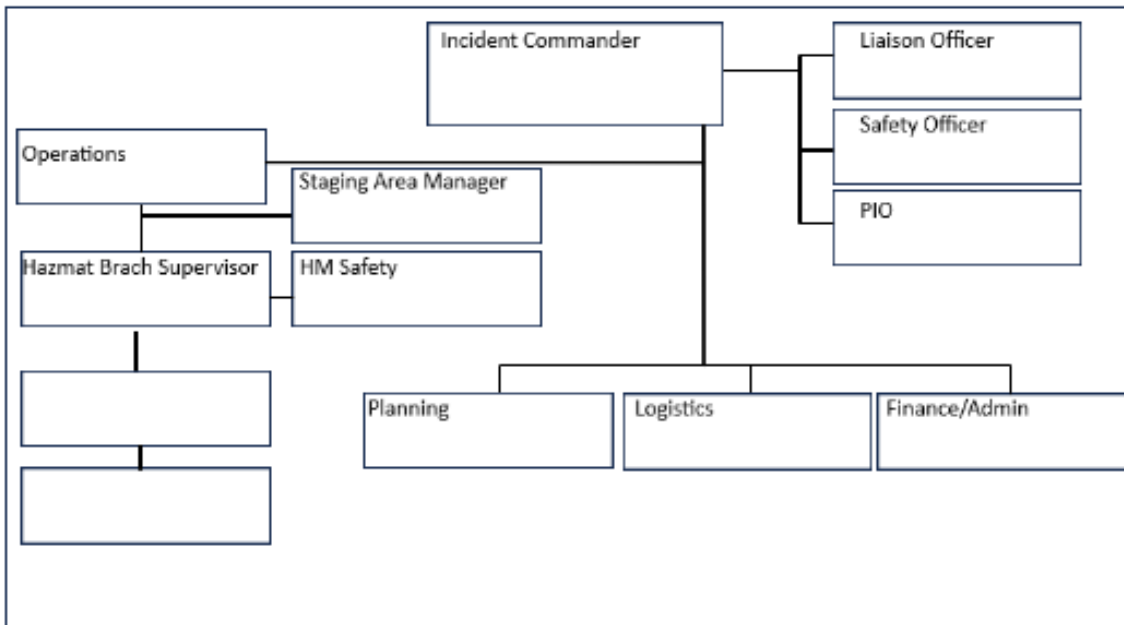
Initial Readings and at 5-minute intervals

Date _____					
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm
Time _____	O ₂ _____%	CO _____ppm	LEL _____%	H ₂ S _____ppm	HCN _____ppm

Attach additional sheets if necessary

ACTIONS TAKEN

- | | | |
|---|--|--------------------------------------|
| <input type="checkbox"/> Rescue | <input type="checkbox"/> Em Decon | <input type="checkbox"/> Oil Dry |
| <input type="checkbox"/> Evacuation | <input type="checkbox"/> Pads | <input type="checkbox"/> Hazmat Unit |
| <input type="checkbox"/> Isolation Zone | <input type="checkbox"/> Booms | <input type="checkbox"/> None |
| <input type="checkbox"/> Air Monitoring | <input type="checkbox"/> Dam/Dike/Divert | <input type="checkbox"/> Other |
| <input type="checkbox"/> Deny Entry | <input type="checkbox"/> Retain | |





**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:



**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 HAZARDOUS MATERIALS OPERATIONS NFPA 470 – 2022 Edition



Pennsylvania State Fire Academy Personal Protective Equipment Inspection Checklist



USER Name	Inspection Date

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:	S/N:
	P 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	P	F	P	F
Contamination				
Soiling				
Loss of Face Opening adjustments / shrinkage			Loss of Seam Integrity; Broken or missing stitches	

Footwear Make:	Model:	P	F
		P F	P 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)	P	F	P	F
Contamination			Installed correctly	
Soiling				
Cuts, tears, punctures, splitting, or thermal damage			Loss of Seam Integrity; Broken or missing stitches	



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

Coat – Make:	Model:		S/N:	
	P	F		F
Contamination			Rips, cuts, tears, or thermal damage	
Soiling			Correctly assembled	
2" Coat to Pants overlap				
Damaged or missing hardware and closure system			Loss of Seam Integrity; Broken or missing stitches	

Pants – Make:	Model:		S/N:	
	P	F		F
Contamination			Rips, cuts, tears, or thermal damage	
Soiling			Correctly assembled	
Damaged or missing hardware and closure system			Loss of Seam Integrity; Broken or missing stitches	

Gloves				
	P	F		F
Contamination			Rips, cuts, tears, or thermal damage	
Soiling			Inverted liner	
Shrinkage			Loss of elasticity and flexibility	
			Loss of Seam Integrity; Broken or missing stitches	

Interface Components(items such as wristlets and collars)				
	P	F		F
Contamination			Loss of effectiveness	
Soiling			Physical damage	
			Loss of Seam Integrity; Broken or missing stitches	

COMMENTS:

ANY DAMAGE NOT INCLUDED IN THIS CHECKLIST SHALL REQUIRE AN ADVANCED INSPECTION

Inspected by:	Signature:



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



PSFA Chemical Protective Clothing Inspection Form

Before Use Inspection

Visual Inspection of CPC # _____

Suit Size: _____ Suit Material: _____

Inspected by: _____

Inspection Date: _____

	Good	Unsat		Good	Unsat
CLOTHING (CPC)					
Imperfect Seams			Stiffness		
Nonuniform Coatings			Evidence of chemical attack such as discoloration, swelling, stiffening, softness		
Tears					
Malfunctioning Closures			Closure failure		
Observe for cracks			Tears		
Observe for shelf deterioration			Punctures		
Discoloration			Seam discontinuities		
Swelling					
GLOVES					
Pressurize gloves to check for pinholes					
ENCAPSULATING SUITS					
Check faceshield for			Operation of pressure relief valves		
Cracks			Fitting of wrists, ankles, neck		
Crazing					
Fogginess					