



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: Chapters 7 and 9

	General (Chapter 7), Mission Specifics (Chapter 9, Section 9.2 & 9.6)	
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 D	Personal Protective Equipment & Respiratory Protection (9.2)	Mandatory
Station E	Foam Application Vapor Suppression (9.6)	Mandatory
Station F	Absorption/Adsorption (9.6)	Mandatory
Station G	Damming (9.6)	Mandatory
Station H	Diversion, Diking and Retention (9.6)	Mandatory
Station I	Dilution (9.6)	Mandatory
Station J	Vapor Dispersion & Remote Valve Shutoff (9.6)	Mandatory
	Mission Specifics (Chapter 9)	
Station K	Detection, Monitoring, and Sampling (9.7)	Optional
Station L	Mass DECON & Victim Recovery (9.3) & (9.8)	Optional
Station M	Technical Decontamination (9.4)	Optional



PENNSYLVANIA STATE FIRE ACADEMY

HAZARDOUS MATERIALS OPERATIONS

NFPA 470 – 2022 Edition

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 _____ Initial _____ 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: <input type="checkbox"/> Transportation: <input type="checkbox"/> Pipeline: <input type="checkbox"/>			
Fixed Facility			
1	Identify type of facility and container		
2	Meet with facility representative to determine location of incident and access to incident		
Transportation			
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		
Pipeline			
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 Scenarios			
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		
10	Complete incident Size up		
Please indicate skill outcome		PASS	FAIL

Evaluator Comments: _____

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



PENNSYLVANIA STATE FIRE ACADEMY

HAZARDOUS MATERIALS OPERATIONS

NFPA 470 – 2022 Edition

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 _____ Initial _____ Retest

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 <input type="checkbox"/> Responder <input type="checkbox"/> 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 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

Evaluator Comments: _____

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



PENNSYLVANIA STATE FIRE ACADEMY

HAZARDOUS MATERIALS OPERATIONS

NFPA 470 – 2022 Edition

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 _____Initial _____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 hose line 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.

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

Evaluator Comments: _____

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



PENNSYLVANIA STATE FIRE ACADEMY

HAZARDOUS MATERIALS OPERATIONS

NFPA 470 – 2022 Edition

STATION D: Personal Protective Equipment & Respiratory Protection		Reference NFPA 470 – 2022 Edition, Chapter 9 Mandatory Station JPR 9.2.1	
Test Site	Test Date	Candidate #	Check the Test Type _____Initial _____Retest

Note: PPE includes protective clothing, skin, eyes/face, hands, feet, head, body, hearing.

Directions: Given a scenario involving hazardous materials and/or WMD the candidate will demonstrate the ability to select, don, work in and doff personal protective equipment (PPE) including respiratory protection equipment provided by the AHJ.

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

No.	Tasks	Yes	No
1	Performs pre-use inspection of PPE		
2	Selects and dons Personal Protective Equipment (PPE) Properly donned appropriate level of PPE: Circle One Level A Level B Level C (PPE) (specify) _____		
3	Selects and dons Respiratory Protection Equipment (RPE) Properly donned appropriate level of RPE: Circle One SCBA SAR PAPR ARP		
4	Works in PPE		
5	Doffs PPE and RPE		
6	Properly inspected and tested PPE prior to storage		
7	Using the appropriate forms/reporting procedures candidate notes/reports any abnormal findings during testing/inspection of PPE		
8	Completes all tasks without compromising personal safety		
Please indicate skill outcome		PASS	FAIL

Evaluator Comments: _____

Evaluator Signature: _____

Evaluator #: _____



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

STATION E: Foam Application Vapor Suppression		Reference NFPA 470 – 2022 Edition, Chapter 9 Mandatory Station JPRs 9.6.1	
Test Site	Test Date	Candidate #	Check the Test Type _____Initial _____Retest

Evaluator Note: If a task (i.e., removes pick-up tube) is not applicable, please note N/A in the comments; then calculate PASS based on the remaining applicable “Yes” marks.

Directions: Given a scenario and an incident action plan involving hazardous materials and/or WMD materials, demonstrate the ability, while working as part of a team and while wearing PPE and SCBA, demonstrate the proper application of a vapor suppressing agent/foam on a HAZMAT spill. When the task is completed, demonstrate proper doffing PPE procedures. Do you have any questions?

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

No.	Tasks	Yes	No
1	Establishes control zones and an Incident Command System (ICS)		
2	Control efforts: considers wind direction, water spray and run off		
3	Selects, Dons and Doffs appropriate PPE		
4	Team properly assembles a foam delivery system (if applicable)		
5	Verify the system is a properly proportioned system		
6	Candidate applies foam to material spilled		
7	Candidate shuts down nozzle		
	On evaluator command, candidates change positions and repeat Steps 6 and 7 (leave PPE (Level C) in place)		
8	Removes pick-up tube from foam & flushes hose line & pick-up tube (if applicable)		
9	Completes all tasks without compromising personal or team safety		
Please indicate skill outcome		PASS	FAIL

Evaluator Comments: _____

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



PENNSYLVANIA STATE FIRE ACADEMY

HAZARDOUS MATERIALS OPERATIONS

NFPA 470 – 2022 Edition

STATION F: Absorption / Adsorption		Reference NFPA 470 – 2022 Edition, Chapter 9 Mandatory Station JPRs 9.6.1	
Test Site	Test Date	Candidate #	Check the Test Type _____Initial _____Retest

Evaluator Note: You will act as the HAZMAT Technician and provide the candidate (who is in an operations-level role) the name of the product(s) spilled and the materials to be used in clean-up. The candidate will choose the appropriate products and follow directions as noted below to complete the tasks.

Directions: Given a scenario, appropriate tools and equipment, and while wearing PPE and working as part of a team, demonstrate the proper control activities for absorption and adsorption. First absorb the HAZMAT spill then apply adsorbent to the remaining product. Use two different materials to complete these tasks. Do you have any questions?

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

No.	Tasks	Yes	No
1	Establishes control zones and an Incident Command System (ICS)		
2	Control efforts: considers wind direction, water spray and run off		
3	Selects, Dons and Doffs appropriate PPE		
	ABSORPTION:		
4	Selects proper absorption material for the hazardous material involved. Check material type: ___ sand ___ soil ___ spill pads ___ vermiculite		
5	Properly places absorbent on the spill with minimal disruption to the spill.		
6	Waits for the absorbent to absorb as much product as practical		
7	Removes absorbent and places in a provided container		
	ADSORPTION:		
8	Selects proper adsorption material for the hazardous material involved. Check material type: ___ sand ___ soil ___ kitty litter ___ vermiculite ___ activated charcoal		
9	Properly places adsorbent materials on the spill with minimal disruption		
10	Waits for the adsorbent to adsorb as much product as practical		
11	Removes adsorbent materials and places in a provided container		
12	Completes all tasks without compromising personal or team safety		
Please indicate skill outcome		PASS	FAIL

Evaluator Comments: _____

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



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

STATION G: Damming		Reference NFPA 470 – 2022 Edition, Chapter 9 Mandatory Station JPRs 9.6.1	
Test Site	Test Date	Candidate #	Check the Test Type _____Initial _____Retest

Evaluator Note: Indicate to the candidate which damming technique (i.e., underflow or overflow) to construct.

Directions: Given a scenario, appropriate tools and equipment, and while wearing PPE and working as part of a team, demonstrate the proper control activities for damming. Do you have any questions?

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

No.	Tasks	Yes	No
1	Establishes control zones and an Incident Command System (ICS)		
2	Control efforts: considers wind direction, water spray and run off		
3	Selects, Dons and Doffs appropriate PPE		
4	Selects proper size and amount of pipe		
5	Constructs a dam using materials provided Check construction type: ____ underflow ____ overflow		
6	Places pipe (s) in proper location		
7	Size and amount of pipe adequately handles amount of water flow		
8	Completes all tasks without compromising personal or team safety		
Please indicate skill outcome		PASS	FAIL

Evaluator Comments: _____

Evaluator Signature: _____

Evaluator #: _____



PENNSYLVANIA STATE FIRE ACADEMY

HAZARDOUS MATERIALS OPERATIONS

NFPA 470 – 2022 Edition

STATION H: Diversion, Diking, & Retention		Reference NFPA 470 – 2022 Edition, Chapter 9 Mandatory Station JPRs 9.6.1	
Test Site	Test Date	Candidate #	Check the Test Type _____Initial _____Retest

Directions: Given a scenario, appropriate tools and equipment, and while wearing PPE and working as part of a team, demonstrate the proper control activities of diversion and diking. First divert the flow of material to a safe location, then construct a dike around a leaking HAZMAT container. Do you have any questions?

Given a scenario, appropriate tools and equipment, and while wearing PPE / SCBA and working as a team, demonstrate the proper control activities to construct a retention device to keep a HAZMAT from flowing into a storm drain. Do you have any questions?

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

No.	Tasks	Yes	No
1	Establishes control zones and an Incident Command System (ICS)		
2	Control efforts: considers wind direction, water spray and run off		
3	Selects, Dons and Doffs appropriate PPE		
	DIVERSION:		
4	Selects proper diverting material		
5	Constructs a diversion device with material provided		
6	The flowing material is properly diverted to a safe location		
7	Size and angle of diversion adequately handles amount of hazardous flow		
		PASS	FAIL
	DIKING:		
8	Selects proper diking materials		
9	Constructs dike using materials provided.		
10	Places dike in proper location		
11	Size and amount of diking material adequately handles the volume of HAZMAT		
12	Completes all tasks without compromising personal or team safety		
		PASS	FAIL
	RETENTION:		
13	Selects proper retention material		
14	Constructs a retention device with material		
15	Product stopped before entering the storm sewer		
16	Completes all tasks without compromising personal or team safety		
		PASS	FAIL
Please indicate total skill outcome		PASS	FAIL

Evaluator Comments: _____

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



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

STATION I: Dilution		Reference NFPA 470 – 2022 Edition, Chapter 9 Mandatory Station JPRs 9.6.1	
Test Site	Test Date	Candidate #	Check the Test Type _____Initial _____Retest

Directions: Given a scenario, appropriate tools, and equipment, and while wearing PPE (Level C) and working as part of a team, demonstrate the proper control activities to dilute a HAZMAT spill. Do you have any questions?

Performance Outcome: Pass / Fail is determined by **8 of 8** tasks being correctly performed.

No.	Tasks	Yes	No
1	Establishes control zones		
2	Control efforts: considers wind direction, water spray and run off		
3	Selects, dons and doffs appropriate PPE		
4	Identifies the material as one that can be diluted with water		
5	Determines if the amount of the product released can be effectively diluted		
6	Demonstrates the ability to perform a dilution process and indicates the estimated quantity of water to complete the task		
7	Request spill area be tested for adequate reduction of the hazardous material		
8	Completes all tasks without compromising personal or team safety		
Please indicate skill outcome		PASS	FAIL

Evaluator Comments: _____

Evaluator Signature: _____ **Evaluator #** _____



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

STATION J: Vapor Dispersion & Remote Valve Shutoff		Reference NFPA 470 – 2022 Edition, Chapter 9 Mandatory Station JPRs 9.6.1	
Test Site	Test Date	Candidate #	Check the Test Type _____Initial _____Retest

Evaluator Note: Indicate below which scenario (Outside Handline or Interior PPV) is used.

Directions: Given a scenario, appropriate tools and equipment, and while wearing PPE / SCBA and working as a team, demonstrate the proper control activities for vapor dispersion and for a remote valve shutoff. Candidates will use a hose line for vapor dispersion, approach a leak, and shut off a remote valve (outside scenario); when done, candidates will change positions (i.e., nozzle operator) and repeat the evolution. If using the PPV scenario, each candidate will facilitate the evolution. Do you have any questions?

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

No.	Tasks	Yes	No
1	Establishes control zones and an Incident Command System (ICS)		
2	Control efforts: considers wind direction, product flammability		
3	Selects, Dons, and Doffs appropriate PPE / SCBA		
OUTSIDE SCENARIO USING HAND LINE <input type="checkbox"/> check this box if this scenario is used			
4(a)	Selects hose-line no larger than 1 ¾" with a combination nozzle and starts advancing line using a modified fog pattern to disperse vapors to a safe area		
5(a)	Back up person handles line to facilitate nozzle operator's actions and control.		
6(a)	Team maintains control of the hose line at-all-times		
7(a)	Back-up person shuts off remote valve		
On evaluator command, candidates change positions and repeat Steps 5 - 7 (keep PPE in place)			
INSIDE SCENARIO USING PPV <input type="checkbox"/> check this box if this scenario is used (Individual Candidate)			
4(b)	Selects Positive Pressure Ventilation fan & sets it in appropriate position		
5(b)	Starts and runs fan in a safe manner		
6(b)	Remote valve is shut off		
7(b)	Properly shuts down fan		
8	Monitors the dispersion for changing conditions		
9	Completes all tasks without compromising personal or team safety		
Please indicate skill outcome		PASS	FAIL

Evaluator Comments: _____

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



PENNSYLVANIA STATE FIRE ACADEMY

HAZARDOUS MATERIALS OPERATIONS

NFPA 470 – 2022 Edition

STATION K: Detection, Monitoring, and Sampling		Reference NFPA 470 (2022 Edition) Chapter Mandatory Station: JPR 9.7.1	
Test Site	Test Date	Candidate #	Check the Test Type _____ Initial _____ Retest

Evaluator's Note: Each candidate will be given two detection, monitoring, and sampling devices to perform basic field maintenance, calibration, bump test, and field testing of devices. Candidate must be given one device from **List 1**, one device from **List 2**, and each candidate **MUST** utilize pH paper during field testing of detection, monitoring, and sampling devices.

List 1	List 2
Multi-Gas Meter	Photo Ionization Detector
Thermal Imaging Camera or Temperature Gun	Radiation Meter

Directions: Given a scenario involving a HAZMAT and/or WMD, the candidate will perform basic field maintenance, calibration, and while wearing appropriate PPE will perform detection, monitoring, and sampling field testing actions. The candidate will read and interpret the values listed on the devices, record these readings, and communicate the readings to command. Candidate will then proceed through decontamination and demonstrate the manufactures approved decontamination of the detection, monitoring, and sampling device. Lastly, the candidate will perform maintenance according to manufacturer's instructions and all required records and supporting documentation will be completed and up channeled.

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

No.	Tasks	Yes	No
1	Establishes control zones and an Incident Command System (ICS)		
2	Selects, dons and doffs appropriate PPE		
Use and Field Maintenance of Monitoring Device			
	Monitoring Device: _____		
3	Properly operates device		
4	Demonstrates basic field maintenance of device		
5	Demonstrated field calibration procedure of device (if applicable)		
6	Demonstrated field testing of device		
7	Properly interprets readings		
	Monitoring Device: _____		
8	Properly operates device		
9	Demonstrates basic field maintenance of device		
10	Demonstrated field calibration procedure of device (if applicable)		
11	Demonstrated field testing of device		
12	Properly interprets readings		
13	Candidate utilizes pH paper correctly		
14	Verbalizes how selection of detection equipment was determined		
15	Verbalizes importance of working with technical specialist, allied professional, and a SOP or response plan(s)		
16	Verbalizes procedure for cleaning/decontamination and maintenance of equipment based on manufacturers recommendations		
17	Completes reporting documentation for detection, monitoring, and sampling operations		
18	Communicates results of detection, monitoring, and sampling.		
19	Completes all tasks without compromising personal or team safety		
Please indicate skill outcome		PASS	FAIL

Comments and Evaluator signature on back side of form



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

STATION K: Detection, Monitoring, and Sampling		Reference NFPA 470 (2022 Edition) Chapter Mandatory Station: JPR 9.7.1	
Test Site	Test Date	Candidate #	Check the Test Type _____Initial _____Retest

Evaluator Comments: _____

Evaluator Signature: _____ Evaluator #: _____



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		Reference NFPA 470 – 2022 Edition, Chapter 9	
Continued		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		
	At minimum candidate must perform one carry with and without equipment		
	___ Cradle-in-Arms ___ Two-Person Extremity		
	___ Two-Person Seat ___ Two-Person Chair		
10	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		
	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		
11	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 #:** _____



PENNSYLVANIA STATE FIRE ACADEMY

HAZARDOUS MATERIALS OPERATIONS

NFPA 470 – 2022 Edition

STATION M: Technical Decontamination		Reference NFPA 470 (2022 Edition) Chapter 9 Mandatory Station: JPR 9.4.1	
Test Site	Test Date	Candidate #	Check the Test Type _____ Initial _____ Retest

Directions: Working as a team member and given a HAZMAT and/or WMD scenario, a simulated contaminated person, all required PPE and decontamination supplies, and a decontamination line (layout), demonstrate the ability to select, don, work in and doff PPE including self-contained breathing apparatus (SCBA) and provide the appropriate technical decontamination of the person(s).

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

No.	Tasks	Yes	No
1	Establishes control zones (i.e., hot, warm, cold)		
2	Established an ICS structure		
3	Selects appropriate PPE including respiratory protection required by the DECON team. [Circle One] - Level A Level B Level C (PPE) Level D [Circle One] - SCBA SAR PAPR APR Other _____		
4	Verbalizes the importance of working with a technical specialist, allied professional, and SOP or response plan(s)		
5	Verbalizes advantages and limitations of operations and methods of technical DECON		
6	Assisted in preparation and lay out of a DECON line in accordance with AHJ procedure		
7	Functions as a DECON sector member and performs technical DECON		
8	Appropriately instructs contaminated person through the DECON steps: *Tool Drop *Gross DECON *Wash / rinse stations *Removes PPE (respiratory last) *Rehab medical monitoring *Evaluates effectiveness of technical DECON		
9	Demonstrated ability to perform a DECON role. Indicate which position: __Washer/Rinser __Un-dresser		
10	Properly inspects PPE and equipment prior to storage		
11	Completes documentation, reports any abnormal findings of PPE/equipment and personnel exposures		
12	Completes all tasks without compromising personal or team safety		
Please indicate skill outcome		PASS	FAIL

Evaluator Comments: _____

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



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 _____

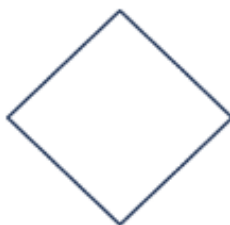
PPE _____

Respiratory Protection _____

NFPA 704



DOT Placard



Hazard ID Numbers



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

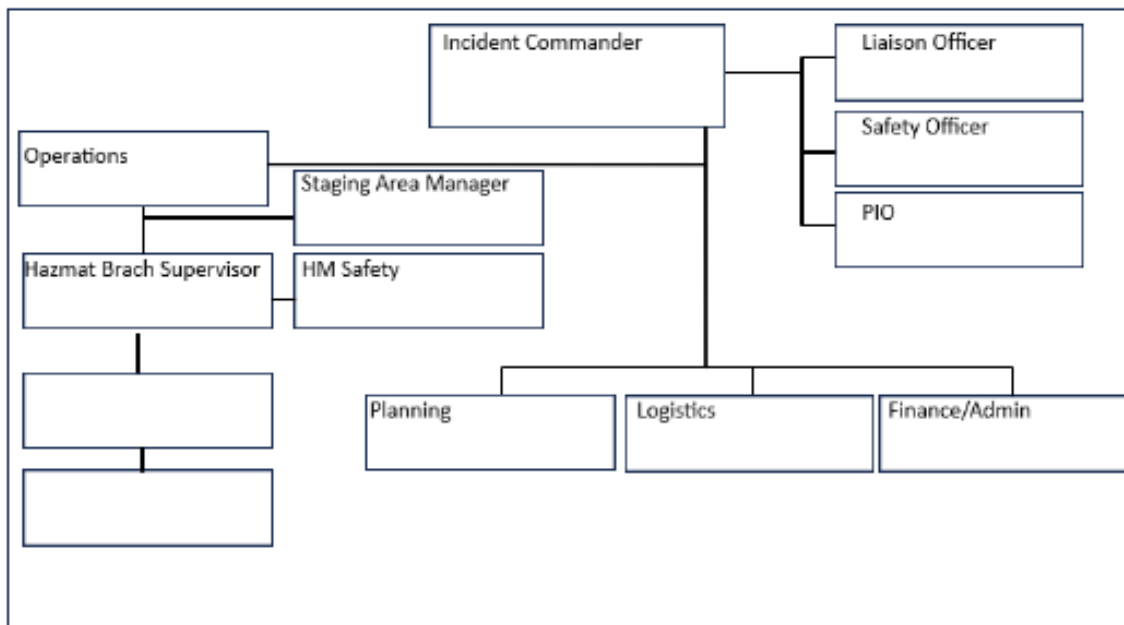
Initial Readings and at 5-minute intervals

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

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
Contamination		
Soiling		
Loss of Face Opening adjustments / shrinkage		

Footwear Make:	Model:	
	P	F
Contamination		
Soiling		
Closure system damage		
Damaged or deformed safety toe, mid-sole, and shank		

Drag Rescue Device (DRD)	P	F
Contamination		
Soiling		
Cuts, tears, punctures, splitting, or thermal damage		



PENNSYLVANIA STATE FIRE ACADEMY

HAZARDOUS MATERIALS OPERATIONS

NFPA 470 – 2022 Edition

Coat – Make:	P	F	Model:	P	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:	P	F	Model:	P	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		P	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		P	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 attach such as discoloration, swelling, stiffening, softness		
Tears			Closure failure		
Malfunctioning Closures			Tears		
Observe for cracks			Punctures		
Observe for shelf deterioration			Seam discontinuities		
Discoloration					
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					