



HAZARDOUS MATERIALS OPERATIONS

INITIAL CERTIFICATION PRACTICAL TASK BOOK

NFPA 470 (2022 EDITION)



Hazardous Materials Operations



INTRODUCTION

This task book provides the evaluation tools used during the State Practical Examinations for the skills required to complete the Hazardous Materials Operations certification program. The National Fire Protection Agency (NFPA) 470: *Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders* (2022 Edition) standard has specified Job Performance Requirements (JPRs) required by individuals to comply with Chapters 7 & 9. JPRs provide an individual completing a task with the necessary data to determine when the task is finished and indicate how well the individual performed.

The Proficiency Log sheets and JPR Skill Sheets contained in this Task Book are to be utilized to document the successful completion of State Practical Examinations related to this certification level. Approved training facilities that already have documentation methods in place that are referenced to the currently approved reference material may incorporate these skill sheets into their program or continue to utilize their own. Approved training facilities may also elect to modify the skill sheets found here to more closely reflect the AHJs current operational practices.

INITIAL STATE CERTIFICATION PREREQUISITES

All rules relating to the Hazardous Materials Operations certification can be found in the Joint Committee on Administrative Rules (JCAR) Section 141.344.

1. Engagement as Illinois fire protection personnel, as attested by the employing fire chief of the candidate seeking certification.
2. Current certification as Basic Operations Firefighter.
3. Successful completion of a Hazardous Materials Operations course including the Hazardous Materials Awareness level JPRs consisting of a minimum of 40 instructional hours.
4. Passage of the State Written and State Practical Examinations.
5. Additional information related to the module delivery and course requirements can be found in the JCAR rule.

REFERENCE LIST

Below is the list of the approved reference material.

- Hazardous Materials for First Responders, 6th Edition. IFSTA.
- Hazardous Materials: Awareness and Operations, 4th Edition. Jones & Bartlett; or
- Fundamentals of Fire Fighter Skills and Hazardous Materials, 5th Edition. Jones & Bartlett.



Hazardous Materials Operations



HOW TO USE THIS TASK BOOK

1. The Proficiency Log Sheets list the mandatory JPR skill examinations on which a Hazardous Materials Operations candidate shall be tested.
2. Proficiency Log Sheets are utilized to track successful passage of JPR examinations throughout the delivery of an approved Hazardous Materials Operations course (in addition to the individual JPR examination pages).
3. JPR examinations requiring multiple candidates may be completed as a group.
4. Hazardous Materials Operations candidates are permitted two attempts to pass each JPR examination. If the candidate does not pass after the second attempt:
 - a. The candidate shall receive additional training in that topic area.
 - b. The candidate shall be retested on a later date.
 - c. Documentation of all attempts and re-education shall be maintained.



Hazardous Materials Operations



PROFICIENCY LOG SHEET (1 of 3)

7.2	Identify Potential Hazards				Officer Initials
7.2.1	Date		Comments		
7.2.2	Date		Comments		
7.2.3	Date		Comments		
7.2.4	Date		Comments		

7.3	Identify Tactics				Officer Initials
7.3.1	Date		Comments		

7.4	Action Plan Implementation				Officer Initials
7.4.1	Date		Comments		

7.5	Emergency Decontamination				Officer Initials
7.5.1	Date		Comments		

7.6	Progress Evaluation & Reporting				Officer Initials
7.6.1	Date		Comments		

9.2	Personal Protective Equipment				Officer Initials
9.2.1-1	Date		Comments		
9.2.1-2	Date		Comments		
9.2.1-3	Date		Comments		
9.2.1-4	Date		Comments		
9.2.1-5	Date		Comments		



Hazardous Materials Operations

PROFICIENCY LOG SHEET (2 of 3)



9.3	Mass Decontamination				Officer Initials
9.3.1-1	Date		Comments		
9.3.1-2	Date		Comments		

9.4	Technical Decontamination				Officer Initials
9.4.1	Date		Comments		

9.6	Product Control				Officer Initials
9.6.1-1	Date		Comments		
9.6.1-2	Date		Comments		
9.6.1-3	Date		Comments		
9.6.1-4	Date		Comments		
9.6.1-5	Date		Comments		
9.6.1-6	Date		Comments		
9.6.1-7	Date		Comments		
9.6.1-8	Date		Comments		

9.7	Detection, Monitoring & Sampling				Officer Initials
9.7.1-1	Date		Comments		
9.7.1-2	Date		Comments		
9.7.1-3	Date		Comments		

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 7.2.1-1	TASK: Identify roadway containers.				
PERFORMANCE OUTCOME: The candidate shall identify the scope of the problem at a hazardous materials/WMD incident, so that container types, materials, location and physical state (form) of release, and surrounding conditions are identified, hazard and response information is collected, the potential behavior of a material and its container is identified, and the potential hazards, harm, and outcomes associated with that behavior are identified.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given images or photographs of roadway containers based on the Emergency Response Guidebook.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate identifies and describes the use of the MC331, TC331, SCT331 trailer.				
2	The candidate identifies and describes the use of the MC338, TC338, SCT338, TC341, CG341 trailer.				
3	The candidate identifies and describes the use of the DOT407, TC407, SCT307, MC307, TC307 trailer.				
4	The candidate identifies and describes the use of the DOT406, TC406, SCT306/406, MC306, TC306 trailer.				
5	The candidate identifies and describes the use of the DOT412, TC412, SCT312, MC312, TC312 trailer.				
6	The candidate identifies and describes the use of a compressed gas/tube trailer.				
7	The candidate identifies and describes the use of a dry bulk cargo trailer.				
8	The candidate identifies and describes the use of a vacuum tanker.				
9	The candidate identifies and describes the use of a mixed cargo trailer.				
10	The candidate identifies and describes the use of a intermodal freight container.				
11	The candidate identifies and describes the use of an intermodal tank.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 7.2.1-2		TASK: Identify rail containers.			
PERFORMANCE OUTCOME: The candidate shall identify the scope of the problem at a hazardous materials/WMD incident, so that container types, materials, location and physical state (form) of release, and surrounding conditions are identified, hazard and response information is collected, the potential behavior of a material and its container is identified, and the potential hazards, harm, and outcomes associated with that behavior are identified.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given images or photographs of rail containers based on the Emergency Response Guidebook.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate identifies and describes the use of a pressure tank car.				
2	The candidate identifies and describes the use of a non-pressure / low pressure tank car.				
3	The candidate identifies and describes the use of a cryogenic tank car.				
4	The candidate identifies and describes the use of a box car.				
5	The candidate identifies and describes the use of a hopper car.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 7.2.1-3	TASK: Identify placards by number, color, and symbol.				
PERFORMANCE OUTCOME: The candidate shall identify the scope of the problem at a hazardous materials/WMD incident, so that container types, materials, location and physical state (form) of release, and surrounding conditions are identified, hazard and response information is collected, the potential behavior of a material and its container is identified, and the potential hazards, harm, and outcomes associated with that behavior are identified.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given images, photographs based on the Emergency Response Guidebook, or actual placards if available.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate identifies and describes class 1 (1.1 through 1.6) explosives.				
2	The candidate identifies and describes class 2 (2.1, 2.2, 2.3) gases.				
3	The candidate identifies and describes class 3 flammable liquid.				
4	The candidate identifies and describes class 4 (4.1, 4.2, 4.3) flammable solid.				
5	The candidate identifies and describes class 5 (5.1, 5.2) oxidizer and organic peroxide.				
6	The candidate identifies and describes class 6 poisons.				
7	The candidate identifies and describes class 7 radioactive.				
8	The candidate identifies and describes class 8 corrosive.				
9	The candidate identifies and describes class 9 miscellaneous hazardous material.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 7.2.1-4	TASK: Use the Emergency Response Guidebook (ERG).				
PERFORMANCE OUTCOME: The candidate shall identify the scope of the problem at a hazardous materials/WMD incident, so that container types, materials, location and physical state (form) of release, and surrounding conditions are identified, hazard and response information is collected, the potential behavior of a material and its container is identified, and the potential hazards, harm, and outcomes associated with that behavior are identified.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident, an assignment, policies and procedures, and approved reference sources.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate identifies the chemical name and/or the chemical ID number for the placard.				
2	The candidate looks up the material name in the appropriate section of the ERG.				
3	The candidate determines the correct emergency action guide to use for the chemical identified.				
4	The candidate identifies the primary hazard (e.g., health hazards), potential fire and explosion hazards, recommended protective clothing, and evacuation recommendations.				
5	The candidate identifies the isolation distance, and the protective actions required for the chemical substance in the green section (where applicable).				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT

NFPA 470
2022 Edition
7.3.1

TASK: Identify strategies and tactics available at a hazardous materials incident.

PERFORMANCE OUTCOME: The candidate shall identify the tactics for a hazardous materials/WMD incident, so that response information is collected; strategies, tactics, safety precautions, suitability of approved personal protective equipment (PPE) available, and emergency decontamination needs are identified; and an action plan is developed.

CONDITIONS: The applicant will complete all elements.

EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident, an assignment, policies and procedures, approved reference sources, and the scope of the problem.

Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate completes an incident size-up.				
2	The candidate identifies				
3	The candidate strategies based on the scope of the incident and available resources.				
4	The candidate identifies tactics based on the strategic objectives and available resources.				
5	The candidate identifies safety precautions for the incident including emergency decon needs.				
6	The candidate determines if available PPE is suitable for incident conditions.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 7.4.1	TASK: Establish and maintain scene control at a hazardous materials incident.				
PERFORMANCE OUTCOME: The candidate shall perform assigned tasks at a hazardous materials/WMD incident, so that protective actions and scene control are established and maintained, on-scene incident command is initiated, evidence is preserved, approved PPE is selected and used in the proper manner, exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized, assignments are completed, and emergency decontamination is conducted in the field.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident; an assignment with limited potential of contact with hazardous materials/WMD, policies and procedures, the scope of the problem, approved tools, equipment, and PPE.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate completes an incident size-up.				
2	The candidate takes protective actions.				
3	The candidate establishes an incident management system.				
4	The candidate develops and implements an IAP.				
5	The candidate establishes and ensures scene control.				
6	The candidate selects and uses appropriate PPE.				
7	The candidate protects exposures and personnel.				
8	The candidate ensures safety procedures are followed.				
9	The candidate minimizes or avoids hazards.				
10	The candidate identifies potential evidence.				
11	The candidate preserves potential evidence.				
12	The candidate reevaluates the scene and adjusts as necessary.				
13	The candidate completes assignments and appropriate documentation.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 7.5.1		TASK: Perform emergency decontamination on contaminated personnel, equipment, and PPE in the field.			
PERFORMANCE OUTCOME: The candidate shall perform emergency decontamination at a hazardous materials/WMD incident, so that emergency decontamination needs are identified, approved PPE is selected and used, exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized, emergency decontamination is set up and implemented, and victims and responders are decontaminated.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident that requires emergency decontamination; an assignment; scope of the problem; policies and procedures; and approved tools, equipment, and PPE for emergency decontamination.					
Step	Skill (1 of 2)	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate analyzes the incident and determines that emergency decontamination is required.				
2	The candidate selects an emergency decontamination method.				
3	The candidate ensures that all responders involved in decontamination operations are wearing appropriate PPE for performing emergency decontamination.				
4	The candidate ensures emergency decontamination is set up in a safe area.				
For Contaminated Personnel					
5	The candidate instructs contaminated personnel to advance to the emergency decontamination area.				
6	The candidate performs gross contamination removal.				
7	The candidate instructs personnel to remove PPE/clothing, minimizing the spread of contaminants.				
8	The candidate keeps track of personal belongings using an approved tracking system.				
9	The candidate instructs personnel to perform a quick head-to-toe rinse, wash, and rinse.				
10	The candidate evaluates the effectiveness of decontamination using an appropriate monitoring/detection method. If contamination is detected, personnel must be redirected through the decon process.				
11	The candidate instructs personnel to dry off and provides them with appropriate garments.				
12	The candidate sends personnel for assessment, first aid, and medical treatment.				
13	The candidate briefs personnel or hospital and ambulance personnel about the contaminant involved using information from appropriate resources.				
14	The candidate completes assignments and appropriate documentation.				



Hazardous Materials Operations



Step	Skill (2 of 2)	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
For Contaminated Tools, Equipment & PPE					
15	The candidate identifies which tools, equipment, and PPE require decontamination and which require disposal.				
16	The candidate appropriately packages and labels tools, equipment, or PPE that require disposal.				
17	The candidate performs emergency decontamination on tools, equipment, and PPE.				
18	The candidate evaluates the effectiveness of decontamination using an appropriate monitoring/detection method. If contamination is detected, tools, equipment, and/or PPE must be put through the decon process again.				
19	The candidate inspects tools, equipment, and PPE to ensure that they are ready to return to service.				
20	The candidate appropriately tags any items that require additional care before they can be returned to service.				
21	The candidate returns items to service as appropriate.				
22	The candidate completes required reports and supporting documentation.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 7.6.1		TASK: Evaluate and report progress at a hazardous materials incident.			
PERFORMANCE OUTCOME: The candidate shall evaluate and report the progress of an assigned task for a hazardous materials/WMD incident, so that the effectiveness of the assigned task is evaluated and communicated to the Incident Commander or designee so that the IAP can be adjusted as needed.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident, an assignment, policies and procedures, status of implemented strategies and tactics, and approved communication tools and equipment.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate determines the incident status.				
2	The candidate reviews the IAP.				
3	The candidate evaluates the effectiveness of assigned tasks.				
4	The candidate determines if the incident objectives are being met.				
5	The candidate communicates the status of assigned tasks to the instructor or incident command, using approved communications tools and equipment.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT

NFPA 470
2022 Edition
9.2.1-1

TASK: Don a liquid splash-protective (Level B) nonencapsulated suit.

PERFORMANCE OUTCOME: The candidate shall select, don, work in, and doff approved PPE at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected, inspected, donned, worked in, decontaminated, and doffed; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; PPE is maintained and stored consistent with AHJ policies and procedures and NFPA 1891; and all reports and documentation pertaining to PPE use are completed.

CONDITIONS: The applicant will complete all elements.

EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident; a mission-specific assignment in an IAP that requires use of PPE; the scope of the problem; strategies and tactics for the incident; access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures; approved PPE; and policies and procedures.

Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate conducts a pre-entry briefing, medical monitoring, and equipment inspection.				
2	The candidate ensures the selected level of protection is appropriate for the mission.				
3	The candidate sits down and pulls on the suit to waist level and pulls on the chemical boots over the top of the chemical suit.				
4	The candidate dons the inner gloves.				
5	With assistance, the candidate completes donning the suit by placing both arms in the suit and pulling the suit over their shoulders.				
6	The candidate instructs the assistant to close the chemical suit by closing the zipper and sealing the splash flap.				
7	The candidate dons the SCBA frame and SCBA face piece but does not connect the regulator to the face piece.				
8	With assistance, the candidate pulls the hood over their head and the SCBA face piece.				
9	The candidate places the helmet on their head.				
10	The candidate puts on the outer gloves.				
11	The candidate instructs the assistant to connect the regulator to the SCBA face piece, and ensures they have air flow.				
12	The candidate reviews hand signals and indicates they are okay.				

Comments:

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.2.1-2	TASK: Doff a liquid splash-protective (Level B) nonencapsulated suit.				
PERFORMANCE OUTCOME: The candidate shall select, don, work in, and doff approved PPE at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected, inspected, donned, worked in, decontaminated, and doffed; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; PPE is maintained and stored consistent with AHJ policies and procedures and NFPA 1891; and all reports and documentation pertaining to PPE use are completed.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident; a mission-specific assignment in an IAP that requires use of PPE; the scope of the problem; strategies and tactics for the incident; access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures; approved PPE; and policies and procedures.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	After completing the wash/rinse cycle, the candidate proceeds to the clean area for PPE doffing. The SCBA frame is removed first.				
2	The candidate instructs the assistant to open the chemical splash flap and suit zipper.				
3	The candidate removes their hands from the outer gloves and their arms from the sleeves of the suit.				
4	The candidate crosses their arms in front inside the suit.				
5	The candidate instructs the assistant to begin at the head and roll the suit down and away until the suit is below waist level.				
6	The candidate sits down and instructs the assistant to complete rolling down the suit to the ankles and steps out of the attached chemical boots and suit.				
7	The candidate stands and doffs the SCBA face piece and helmet.				
8	The candidate peels off the inner gloves and goes to the rehabilitation area for medical monitoring, rehydration, and personal decontamination shower.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT

NFPA 470
2022 Edition
9.2.1-3

TASK: Don a liquid splash-protective (Level C) ensemble.

PERFORMANCE OUTCOME: The candidate shall select, don, work in, and doff approved PPE at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected, inspected, donned, worked in, decontaminated, and doffed; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; PPE is maintained and stored consistent with AHJ policies and procedures and NFPA 1891; and all reports and documentation pertaining to PPE use are completed.

CONDITIONS: The applicant will complete all elements.

EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident; a mission-specific assignment in an IAP that requires use of PPE; the scope of the problem; strategies and tactics for the incident; access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures; approved PPE; and policies and procedures.

Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate conducts a pre-entry briefing, medical monitoring, and equipment inspection.				
2	The candidate ensures the selected level of protection is appropriate for the mission.				
3	While seated, the candidate pulls on the suit to waist level and pulls on the chemical boots over the top of the chemical suit.				
4	The candidate dons the inner gloves.				
5	With assistance, the candidate completes donning the suit by placing both arms in the suit and pulling the suit over their shoulders.				
6	The candidate instructs the assistant to close the chemical suit by closing the zipper and sealing the splash flap.				
7	The candidate dons the APR/PAPR face piece.				
8	With assistance, the candidate pulls the hood over their head and the PAR/PAPR face piece.				
9	The candidate places the helmet on their head.				
10	The candidate pulls on the outer gloves.				
11	The candidate reviews hand signals and indicates they are okay.				

Comments:

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.2.1-4	TASK: Doff a liquid splash-protective (Level C) ensemble.				
PERFORMANCE OUTCOME: The candidate shall select, don, work in, and doff approved PPE at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected, inspected, donned, worked in, decontaminated, and doffed; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; PPE is maintained and stored consistent with AHJ policies and procedures and NFPA 1891; and all reports and documentation pertaining to PPE use are completed.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident; a mission-specific assignment in an IAP that requires use of PPE; the scope of the problem; strategies and tactics for the incident; access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures; approved PPE; and policies and procedures.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	After completing decontamination, the candidate proceeds to the clean area.				
2	The candidate instructs the assistant to open the chemical splash flap and suit zipper.				
3	The candidate removes their hands from the gloves and their arms from the sleeves.				
4	The candidate removes the helmet.				
5	The candidate instructs the assistant to begin at the head and roll the suit down below waist level.				
6	The candidate instructs the assistant to complete rolling down the suit and to take the outer boots and suit away.				
7	The candidate removes the APR/PAPR.				
8	The candidate goes to the rehabilitation area for medical monitoring, rehydration, and personal decontamination shower.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.2.1-5	TASK: Don and doff a Level D ensemble.				
PERFORMANCE OUTCOME: The candidate shall select, don, work in, and doff approved PPE at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected, inspected, donned, worked in, decontaminated, and doffed; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; PPE is maintained and stored consistent with AHJ policies and procedures and NFPA 1891; and all reports and documentation pertaining to PPE use are completed.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident; a mission-specific assignment in an IAP that requires use of PPE; the scope of the problem; strategies and tactics for the incident; access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures; approved PPE; and policies and procedures.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate conducts a pre-entry briefing, medical monitoring, and equipment inspection.				
2	The candidate ensures that the selected level of protection is appropriate for the mission.				
3	The candidate dons the Level D suit. a) Don boots. b) Don safety glasses or chemical goggles. c) Don a hard hat. d) Don gloves, a face shield. e) Any other required equipment.				
4	The candidate doffs all PPE.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.3.1-1		TASK: Perform mass decontamination on ambulatory victims.			
PERFORMANCE OUTCOME: The candidate shall perform mass decontamination for ambulatory and nonambulatory victims at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, a mass decontamination process is selected, set up, implemented, evaluated, and terminated; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; personnel, tools, and equipment are decontaminated; and all reports and documentation of mass decontamination operations are completed.					
CONDITIONS: The applicant will complete all elements as part of a team.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident that requires mass decontamination; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, and PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate sets up the appropriate type of mass decontamination system based on the nature of the contaminant and the type of apparatus, equipment, and/or system available.				
2	The candidate ensures they have the appropriate PPE to protect themselves from the chemical threat and does not make physical contact with it.				
3	The candidate directs victims out of the hazard zone and into a suitable location.				
4	The candidate instructs victims to remove all contaminated clothing and walk through the decontamination process.				
5	The candidate flushes the contaminated victims with water.				
6	The candidate directs the contaminated victims to a redress/medical evaluation area.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT

NFPA 470
2022 Edition
9.3.1-2

TASK: Perform mass decontamination on nonambulatory victims.

PERFORMANCE OUTCOME: The candidate shall perform mass decontamination for ambulatory and nonambulatory victims at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, a mass decontamination process is selected, set up, implemented, evaluated, and terminated; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; personnel, tools, and equipment are decontaminated; and all reports and documentation of mass decontamination operations are completed.

CONDITIONS: The applicant will complete all elements as part of a team.

EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident that requires mass decontamination; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, and PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.

Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate sets up the appropriate type of mass decontamination system based on the nature of the contaminant, type of apparatus, equipment, and/or decontamination system available.				
2	The candidate ensures they have the appropriate PPE to protect against the chemical threat.				
3	The candidate removes the appropriate amount of the victim's clothing.				
4	The candidate does not leave any clothing underneath the victim.				
5	The candidate flushes the contaminated victims with water.				
6	The candidate makes sure to rinse well under and around the straps that may be holding the victim to a backboard or other extrication device.				
7	The candidate takes care to avoid compromising the victim's airway with water during the process.				
8	The candidate moves the victims through the decontamination corridor and into the triage area for medical evaluation.				

Comments:

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.4.1		TASK: Perform technical decontamination on a responder.			
PERFORMANCE OUTCOME: The candidate shall perform technical decontamination in support of entry operations and for ambulatory and nonambulatory victims at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, a technical decontamination method is selected, set up, implemented, evaluated, and terminated; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; personnel, tools, and equipment are decontaminated; and all reports and documentation of technical decontamination operations are completed.					
CONDITIONS: The applicant will complete all elements as part of a team.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident that requires technical decontamination; an assignment in an IAP; scope of the problem; policies and procedures for technical decontamination; approved tools, equipment, and PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The contaminated responder drops any tools or equipment into a container or onto a designated tarp.				
2	The candidate performs gross decontamination on the contaminated responder, if necessary.				
3	The candidate washes and rinses the contaminated responder one to three times.				
4	The candidate removes the outer hazardous materials/chemical-protective clothing from the contaminated responder.				
5	The responder removes their personal clothing and any respiratory protection and proceeds to the rehabilitation area for medical monitoring, rehydration, and personal decontamination.				
Comments:					

Instructor Signature

Date

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Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.6.1-1	TASK: Use absorption/adsorption to manage an incident.				
PERFORMANCE OUTCOME: The candidate shall perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate decides whether absorption or adsorption is best suited for use with the spilled product.				
2	The candidate assess the location of the spill and stays clear of any spilled product.				
3	The candidate uses detection and monitoring devices to determine whether airborne contamination is present.				
4	The candidate consults reference sources to obtain information on the physical and chemical properties of the spilled material.				
5	The candidate applies the appropriate material to control the spilled product.				
6	The candidate maintains control of the absorbent/adsorbent materials and takes appropriate steps for their disposal.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.6.1-2		TASK: Construct a diversion at a hazardous materials incident.			
PERFORMANCE OUTCOME: The candidate shall perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate determines the best location for the diversion.				
2	The candidate uses sandbags or other materials to divert the product flow to an area with fewer hazards.				
3	The candidate stays clear of the product flow.				
4	The candidate monitors the diversion channel to ensure the integrity of the system.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.6.1-3		TASK: Perform a remote valve shutoff or activate an emergency shutoff device.			
PERFORMANCE OUTCOME: The candidate shall perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate selects the appropriate product control technique to confine/contain the release with limited risk of exposure.				
2	The candidate ensures all responders involved in the control function are wearing appropriate PPE for performing remote valve shutoff operations.				
3	The candidate identifies and locates the emergency remote control valve and/or emergency shutoff device.				
4	The candidate operates the remote-control valve and/or emergency shutoff device properly.				
5	The candidate notifies the Incident Commander of the completed objective.				
6	The candidate completes required reports and supporting documentation.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.6.1-4	TASK: Perform damming at a hazardous materials incident.				
PERFORMANCE OUTCOME: The candidate shall perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate selects the appropriate product control technique to confine/control the release with limited risk to personnel exposure.				
2	The candidate ensures all responders involved in the control function are wearing appropriate PPE for performing damming operations and that appropriate hand tools have been selected.				
3	The candidate selects a location to efficiently and safely perform the damming operation.				
4	The candidate constructs the dam in a location and manner that most efficiently controls the spill.				
5	Upon mitigation of the incident, the candidate places any contaminated material in an approved container.				
6	The candidate seals and labels the container and documents appropriate information for department records.				
7	The candidate decontaminates tools.				
8	The candidate advances to the decontamination line for decontamination.				
9	The candidate completes required reports and supporting documentation.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.6.1-5	TASK: Perform diking at a hazardous materials incident.				
PERFORMANCE OUTCOME: The candidate shall perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate selects the appropriate product control technique to confine/control the release with limited risk to personnel exposure.				
2	The candidate ensures all responders involved in the control function are wearing appropriate PPE for performing diking operations and that appropriate hand tools have been selected.				
3	The candidate selects a location to efficiently and safely perform the diking operation.				
4	The candidate constructs the dike in a manner that most efficiently controls the spill to the desired location.				
5	Upon mitigation of the incident, the candidate places any contaminated material in an approved container.				
6	The candidate seals and labels the container and documents appropriate information for department records.				
7	The candidate decontaminates tools.				
8	The candidate advances to the decontamination line for decontamination.				
9	The candidate completes required reports and supporting documentation.				
Comments:					

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Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT

NFPA 470
2022 Edition
9.6.1-6

TASK: Perform retention at a hazardous materials incident.

PERFORMANCE OUTCOME: The candidate shall perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.

CONDITIONS: The applicant will complete all elements.

EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.

Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate selects the appropriate product control technique to confine/control the release with limited risk to personnel exposure.				
2	The candidate ensures all responders involved in the control function are wearing appropriate PPE for performing diking operations and that appropriate hand tools have been selected.				
3	The candidate selects a location to efficiently and safely perform the retention operation.				
4	The candidate evaluates the rate of flow of the leak to determine the required capacity of the retention vessel.				
5	Working as a team, the candidate retains the hazardous liquid so that it can no longer flow.				
6	Upon mitigation of the incident, the candidate places any contaminated material in an approved container.				
7	The candidate seals and labels the container and documents appropriate information for department records.				
8	The candidate decontaminates tools.				
9	The candidate advances to the decontamination line for decontamination.				
10	The candidate completes required reports and supporting documentation.				

Comments:

Instructor Signature

Date

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Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.6.1-7		TASK: Perform dilution at a hazardous materials incident.			
PERFORMANCE OUTCOME: The candidate shall perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.					
Step	Skill (1 of 2)	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate selects the appropriate product control technique to confine/control the release with limited risk to personnel exposure.				
2	The candidate ensures all responders involved in the control function are wearing appropriate PPE for performing diking operations and that appropriate hand tools have been selected.				
3	The candidate selects a location to efficiently and safely perform the dilution operation.				
4	The candidate evaluates the rate of flow of the leak to determine the required capacity of the retention area and the quantity of water required to dilute the material.				
5	Working as a team, the candidate monitors and assess the leak, and advances hose lines and tools to retention area.				
6	The candidate flows water to dilute spilled material.				
7	The candidate monitors any dikes or dams to ensure integrity of the retention area.				
8	Upon mitigation of the incident, the candidate places any contaminated material in an approved container.				
9	The candidate seals and labels the container and documents appropriate information for department records.				
10	The candidate decontaminates tools.				
11	The candidate advances to the decontamination line for decontamination.				



Hazardous Materials Operations



Step	Skill (2 of 2)	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
12	The candidate completes required reports and supporting documentation.				
Comments:					

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Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT

NFPA 470
2022 Edition
9.6.1-8

TASK: Perform vapor dispersion at a hazardous materials incident.

PERFORMANCE OUTCOME: The candidate shall perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.

CONDITIONS: The applicant will complete all elements.

EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.

Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate selects the appropriate product control technique to confine/control the release with limited risk to personnel exposure.				
2	The candidate ensures all responders involved in the control function are wearing appropriate PPE for performing diking operations and that appropriate hand tools have been selected.				
3	The candidate selects a location to efficiently and safely perform the vapor dispersion operation.				
4	Working as a team, the candidate advances the hose line to a position to apply agent through the vapor cloud to disperse vapors.				
5	The candidate monitors the leak concentration, wind direction, exposed personnel, environmental impact, and water stream effectiveness.				
6	Upon mitigation of the incident, the candidate places any contaminated material in an approved container.				
7	The candidate seals and labels the container and documents appropriate information for department records.				
8	The candidate decontaminates tools.				
9	The candidate advances to the decontamination line for decontamination.				
10	The candidate completes required reports and supporting documentation.				

Comments:

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Date

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Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT

NFPA 470
2022 Edition
9.7.1-1

TASK: Complete basic actions for detection and monitoring.

PERFORMANCE OUTCOME: The candidate shall perform detection, monitoring, and sampling at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, detection, monitoring, and sampling methods are selected; approved equipment is selected for detection, monitoring, or sampling of solid, liquid, or gaseous hazardous materials/WMD; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; detection, monitoring, and sampling operations are implemented as needed; results of detection, monitoring, and sampling are read, interpreted, recorded, and communicated; personnel and their equipment are decontaminated; detection, monitoring, and sampling equipment is maintained; and detection, monitoring, and sampling operations are reported and documented.

CONDITIONS: The applicant will complete all elements.

EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident; an assignment in an IAP; scope of the problem; policies and procedures; approved resources; detection, monitoring, and sampling equipment; PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.

Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate attempts to identify the source and nature of the released substance prior to entry.				
2	The candidate researches and understands the nature of any known identified atmospheric contamination.				
3	The candidate selects the proper personal protective equipment (PPE) for the task.				
4	The candidate selects the appropriate instrument(s) for the task.				
5	The candidate properly prepares the instrument(s) for use.				
6	The candidate prioritizes their monitoring areas.				
7	The candidate develops an overall monitoring plan.				
8	The candidate confirms all readings when obtained, and records when appropriate.				
9	The candidate establishes action levels that could dictate tactics or other actions.				
10	At the conclusion of the incident, the candidate surveys the areas again to confirm the hazard has been mitigated.				

Comments:

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.7.1-2		TASK: Perform a typical start-up procedure for a multi-gas meter.			
PERFORMANCE OUTCOME: The candidate shall perform detection, monitoring, and sampling at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, detection, monitoring, and sampling methods are selected; approved equipment is selected for detection, monitoring, or sampling of solid, liquid, or gaseous hazardous materials/WMD; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; detection, monitoring, and sampling operations are implemented as needed; results of detection, monitoring, and sampling are read, interpreted, recorded, and communicated; personnel and their equipment are decontaminated; detection, monitoring, and sampling equipment is maintained; and detection, monitoring, and sampling operations are reported and documented.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident; an assignment in an IAP; scope of the problem; policies and procedures; approved resources; detection, monitoring, and sampling equipment; PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.					
Step	Skill	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate turns on the device and checks the status of the battery.				
2	The candidate allows the device to warm up.				
3	The candidate ensures				
4	The candidate the device is "zeroed," or not picking up any readings while in a clean environment.				
5	The candidate performs the appropriate bump test.				
6	The candidate allows the device to return to zero.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date



Hazardous Materials Operations



JOB PERFORMANCE REQUIREMENT					
NFPA 470 2022 Edition 9.7.1-3		TASK: Use a multi-gas meter.			
PERFORMANCE OUTCOME: The candidate shall perform detection, monitoring, and sampling at a hazardous materials/WMD incident, so that under the guidance of a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures, detection, monitoring, and sampling methods are selected; approved equipment is selected for detection, monitoring, or sampling of solid, liquid, or gaseous hazardous materials/WMD; approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; detection, monitoring, and sampling operations are implemented as needed; results of detection, monitoring, and sampling are read, interpreted, recorded, and communicated; personnel and their equipment are decontaminated; detection, monitoring, and sampling equipment is maintained; and detection, monitoring, and sampling operations are reported and documented.					
CONDITIONS: The applicant will complete all elements.					
EQUIPMENT REQUIRED: Given a hazardous materials/WMD incident; an assignment in an IAP; scope of the problem; policies and procedures; approved resources; detection, monitoring, and sampling equipment; PPE; and access to a Hazardous Materials Technician, an allied professional, an emergency response plan, or standard operating procedures.					
Step	Skill (Page 1 of 2)	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
1	The candidate turns on the unit, and lets it warm up.				
2	The candidate ensures the battery has sufficient life for the operational period.				
3	The candidate identifies the installed sensors, and verifies they are not expired.				
4	The candidate reviews the alarm limits as well as the audio and visual alarm notifications associated with those limits.				
5	The candidate reviews and understands the types of gases and vapors that could harm or destroy the sensors.				
6	The candidate uses methods to check for those substances to ensure they are not present in the atmosphere to be sampled.				
7	The candidate takes care to avoid pulling liquids into the device.				
8	The candidate performs a test on the pump by occluding the inlet and ensuring the appropriate alarm sounds.				
9	The candidate performs a fresh-air calibration and “zeros” the unit.				
10	The candidate performs a bump test.				
11	The candidate allows the device to reset or return to fresh-air calibration state; then reviews the alarm levels and resetting procedures to address sensors that have become saturated or exposed to too much gas or vapor.				
12	The candidate reviews other device functions such as screen illumination, data logging (if available), and low battery alarm.				
13	The candidate reviews the decontamination procedures being used at the incident.				



Hazardous Materials Operations



Step	Skill (Page 2 of 2)	Attempt 1		Attempt 2	
		Pass	Fail	Pass	Fail
14	The candidate carries out monitoring and detection.				
Comments:					

Instructor Signature

Date

Candidate Signature

Date