
CDC 47202W

Hazardous Materials - Operations Part 1 - Core Competencies

Performance Tests



**Extension Course Program (A4/L)
Air University
Air Education and Training Command**

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Performance Test Instructions

This performance test supplement is based on the 2008 Edition of NFPA 472; *Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents*. This performance test provides detailed performance checklist items for candidate testing. Performance tests cannot be conducted until the candidate has successfully completed the academic portion of the course. However, it is strongly encouraged that this supplement and the checklist it contains be used during the normal course of study. Candidates may practice the performance tests at anytime during study and up until testing is conducted. Practice is highly encouraged.

In the 2008 Edition of NFPA 472, HazMat Operations is now broken into two distinct levels: HazMat Operations Core Competencies and HazMat Operations Mission Specific Competencies. This change was based on written proposals submitted to the NFPA requesting the 472 standard be made a more universal standard. The result is a national consensus standard that addresses the needs of all emergency responders such as fire, rescue, police, EMS, private industry and other allied professionals.

This particular guide has twelve performance test workstations that are broken into two parts. Part I (HazMat Operations Core) has five performance tests and Part II (HazMat Operations Mission Specific) has seven. **NOTE: THE ONLY REQUIREMENT FOR HAZARDOUS MATERIALS OPERATIONS CORE IS THE FIRST 5 WORKSTATIONS IN THIS PERFORMANCE TEST CHECKLIST.** Within each workstation there are several tasks and objectives (NFPA line items). A “Performance Summary Sheet” precedes each workstation or group of evaluated tasks. The performance test summary sheet lists the NFPA line items evaluated and the specific tasks that must be accomplished. Each performance test lists the setting and tools/equipment required for the listed tasks.

Prerequisites for the Department of Defense Hazardous Materials (HazMat) Operations Levels are as follows:

HazMat Operations Core Competencies Knowledge Testing Clarification: Before completing the required performance test portion of the certification process, each student enrolling in the HazMat Operations Core Competencies certification course must take and pass a paper or computer-based final exam at an official Air University approved test control facility (TCF). The HazMat Operations Core Competencies course final exam will only cover the HazMat Operations Core and PPE portions of the course (All inclusive in the same course through Air University enrollment).

HazMat Operations Core Competencies: You must be DoD HazMat Awareness certified prior to enrolling in or completing the HazMat Operations Core course. In the DoD, the HazMat Operations Core Competencies course includes Personal Protective Equipment (PPE). PPE was incorporated into the DoD core course because responders can’t perform the required hands-on HazMat Operations tasks without first having a basic knowledge and understanding of the PPE that they will need to wear. Additionally, PPE is required for ALL of the Mission Specific Competencies.

Performance Test Instructions

Mission Specific Competency Knowledge Testing (Not part of the Hazmat Operations Core requirement): Students who decide to complete some or all of the Mission Specific Competencies will take those final exams using the Fire Department or Emergency Management version of the *CerTest computer-based testing program* prior to completing the required performance tests. **Guidance is listed in the new CerTest Procedural Guide CY 2010.**

HazMat Operations Mission Specific Competencies: You must complete the HazMat Awareness and Operations core courses and certification levels prior to completing any of the seven Mission Specific Competencies. In the new standard there are seven Mission Specific Competencies: (*Technical Decontamination, Mass Decontamination, Product Control, Air Monitoring and Sampling, Victim Rescue and Recovery, Evidence Preservation and Sampling, and Response to Illicit Laboratories*). Completion of all, some, or none of the Mission Specific Competencies levels is left solely up to the candidate or the candidate's fire chief and should match the expected tasks and duties they are expected to perform. **Guidance is listed in the new CerTest Procedural Guide CY 2010.**

Exception: Candidates working to become certified at the DoD Fire Fighter II certification level must complete the HazMat Operations Core (plus PPE) course and the Product Control Mission Specific Competency to meet the NFPA Standard 1001 prerequisite requirement.

HazMat Technician Certification Requirements: Responders who need to become HazMat Technician level certified do not need to complete the Mission Specific Competencies.

Remember, official performance test notifications must be made ten days prior to the actual performance test or the candidate's performance test results will not be accepted by the DoD Administrative Center. For specific program guidance, see DoD Manual 6055.6. Your performance test notifications must be made using the following web site. <http://www.dodffcert.com/performance/notify.cfm>.

It is also important to understand the grading process used during the evaluation process. For a full overview of the CDC process and performance testing please view the *Department of Defense Fire Fighter Certification Program Video* P/N # 612288. Additional information on grading criteria is provided on the next page.

Grading Criteria

The following criteria will be used to evaluate and determine the pass/fail status of a candidate. Each item in the Performance Test Checklist is given a rating.

Critical (C) – This rating has been assigned to items which, if omitted or performed incorrectly, would result in severe injury to, or death of an individual. Should a fire fighter fail to perform any one item rated as Critical (**C**), the fire fighter would be unsuccessful in attaining the required proficiency level for that performance test.

Major (M) – This rating has been given to any item which is very important to the general safety of personnel and the successful completion of the evolution. Should a fire fighter fail to perform any three items rated as Major (**M**), the fire fighter would be unsuccessful in attaining the required proficiency level for that performance test.

General – This rating although there is not symbol, has been given to all remaining items that in combination are relevant to the successful completion of the evolution. Should a fire fighter fail to perform any **four** items rated as General, the fire fighter would be unsuccessful in attaining the required proficiency level for that performance test.

Should a fire fighter fail to perform any combination of Major or General rated items resulting in a sum total of **four**, the fire fighter would be unsuccessful in attaining the required proficiency level for that performance test.

PART 1 - HAZMAT OPERATIONS CORE COMPETENCIES

SKILLS TEST 1 - Collecting Hazard and Response Information Station	1
Performance Test Summary Sheet.....	1
Objectives: NFPA Standard 472, Chapter 5, Paragraph 5.2.2	
Performance Test Item – Collecting Hazard and Response Information	2
Objectives: NFPA Standard 472, Chapter 5, Paragraph 5.2.2	
SKILLS TEST 2 - Estimating Potential Harm Station.....	4
Performance Test Summary Sheet.....	4
Objectives: NFPA Standard 472, Chapter 5, Paragraph 5.2.4	
Performance Test Item – Estimating Potential Harm.....	5
Objectives: NFPA Standard 472, Chapter 5, Paragraph, 5.2.4	
SKILLS TEST 3 - Determining Protective Clothing Station.....	7
Performance Test Summary Sheet.....	7
Objectives: NFPA Standard 472, Chapter 6, Paragraph 6.2.3	
Performance Test Item – Personal Protective Equipment Selection	8
Objective: NFPA Standard 472, Chapter 6, Paragraph 6.2.3.1	
SKILLS TEST 4 – PPE Don/Work/Doff Station.....	10
Performance Test Summary Sheet.....	10
Objectives: NFPA Standard 472, Chapter 6, Paragraph 6.2.4.1	
Performance Test Item – PPE Don/Work/Doff/Disinfect	11
Objectives: NFPA Standard 472, Chapter 6, Paragraph 6.2.4.1	
SKILLS TEST 5 – Emergency Decontamination Station.....	14
Performance Test Summary Sheet.....	14
Objectives: NFPA Standard 472, Chapter 5, Paragraph 5.4.1	
Performance Test Item – Emergency Decontamination	15
Objectives: NFPA Standard 472, Chapter 5, Paragraph 5.4.1	

**PART 2 - HAZMAT OPERATIONS MISSION SPECIFIC
COMPETENCIES**

SKILLS TEST 1 – Air Monitoring and Sampling.....19

Performance Test Summary Sheet.....19
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.7.3.1, 6.7.3.2 and 6.7.4.1

Performance Test Item – Air Monitoring and Sampling..... 20
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.7.3.1, 6.7.3.2 and 6.7.4.1

SKILLS TEST 2 – Mass Decontamination Station22

Performance Test Summary Sheet.....22
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.3.3.2 and 6.3.4.1

Performance Test Item – Mass Decontamination..... 23
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.3.3.2 and 6.3.4.1

SKILLS TEST 3 – Technical Decontamination Station26

Performance Test Summary Sheet.....26
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.4.4.1 and 6.4.4.2

Performance Test Item – Technical Decontamination27
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.4.4.1 and 6.4.4.2

SKILLS TEST 4 – Evidence Preservation and Sampling Station30

Performance Test Summary Sheet.....30
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.5.3 and 6.5.4

Performance Test Item – Evidence Preservation and Sampling31
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.5.3 and 6.5.4

SKILLS TEST 5 – Product Control Station34

Performance Test Summary Sheet.....34
Objectives: NFPA Standard 472, Chapter 6, Paragraph 6.6.4.1

Performance Test Item – Product Control.....35
Objectives: NFPA Standard 472, Chapter 6, Paragraph 6.6.4.1

SKILLS TEST 6 – Victim Rescue and Recovery Station.....	38
Performance Test Summary Sheet.....	38
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.8.3 and 6.8.4	
Performance Test Item – Victim Rescue and Recovery	39
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.8.3 and 6.8.4	
SKILLS TEST 7 – Response to Illicit Laboratories Station	40
Performance Test Summary Sheet.....	40
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.9.3 and 6.9.4	
Performance Test Item – Response to Illicit Laboratories	41
Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.9.3 and 6.9.4	
Performance Test Records	
Part 1 – HazMat Operations Core Competency Performance Test Record.....	51
Part 2 – HazMat Operations Mission Specific Competency Performance Test Record.....	52

HazMat Operations Core Competencies

SKILLS TEST #1 – Collecting Hazard and Response Information

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 5, Paragraph 5.2.2

Tasks: Given two scenarios involving hazardous materials/WMD, identify hazard and response information using material safety data sheets (MSDSs), a current edition of the Emergency Response Guidebook (ERG), and shipping papers.

HazMat Operations Core Competencies

Performance Test Item – Collecting Hazard and Response Information

Personnel

Classification: Hazardous Materials Operations

Objective: NFPA Standard 472, Chapter 5, Paragraph 5.2.2

Task: Given (2) scenarios involving hazardous materials/WMD, identify hazard and response information using material safety data sheets (MSDSs), a current edition of the Emergency Response Guidebook (ERG), and shipping papers.

Setting: Fire Department training classroom or equivalent.

Tools/Equipment: Two material safety data sheets (MSDSs), a current edition of the Emergency Response Guidebook (ERG), shipping papers, pencil/pen and paper.

Attainment

Standard: Correctly perform the tasks outlined above within 60 minutes

Evaluator's

Guidance: Given material safety data sheets (MSDSs), a current edition of the Emergency Response Guidebook (ERG), and shipping papers, the candidate shall identify hazard and response information. This will require the use of the multimedia support disk, graphic viewing capability, copies of material safety data sheets and shipping papers from the multimedia support disk.

HazMat Operations Core Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
1. Identify material safety data sheet (MSDS) hazard and response information.	1. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u> , the candidate identified the:		
	a. Physical and chemical characteristics	___	___
	b. Physical hazards of the material	___	___
	c. Health hazards of the material	___	___
	d. Signs and symptoms of exposure	___	___
	e. Routes of entry	___	___
	f. Permissible exposure limits	___	___
	g. Responsible party contact	___	___
	h. Precautions for safe handling	___	___
	i. Control measures and personal protective equipment	___	___
	j. Emergency & first aid procedures	___	___
2. Identify hazard and response information from the Emergency Response Guidebook and shipping papers.	2. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u> , the candidate identified:		
	a. Initial isolation and/or protective action distances	___	___
	b. Evacuation distances for large spills or fires	___	___
	c. Vapor control methods for spilled liquids	___	___
	d. Shipper	___	___
	e. Packing group number	___	___
	f. Emergency telephone number(s)	___	___

HazMat Operations Core Competencies

SKILLS TEST #2: Estimating Potential Harm

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 5, Paragraph 5.2.4

Tasks: Given scenarios involving hazardous materials/WMD incident, the surrounding conditions, and the concentration of a released material, an MSDS, and the Emergency Response Guidebook, estimate the type and number of exposures and the factors for determining the extent of hazards within the endangered area.

HazMat Operations Core Competencies

Performance Test Item

Personnel

Classification: Hazardous Materials Operations

Objective: NFPA Standard 472, Chapter 5, Paragraph 5.2.4

Task: Given a simulated hazardous materials incident, the surrounding conditions, and the concentration of a released material, an MSDS, and the Emergency Response Guidebook, estimate the type and number of exposures and the factors for determining the extent of hazards within the endangered area.

Setting: Fire Department Training Classroom or equivalent.

Tools

Equipment: A simulated hazardous materials incident scenario, an MSDS for the material involved and an Emergency Response Guidebook, pencil/pen and paper.

Attainment

Standard: Correctly perform the tasks outlined above within 30 minutes.

Evaluator's

Guidance: Given a simulated hazardous materials incident scenario, the candidate shall evaluate all given information to determine the number and type of exposures within the endangered area. The candidate shall recognize exposures that include people, the environment, and property. Once the exposures are identified, the candidate shall apply the information given about a material's concentration to the extent of physical, safety, and health hazards. The candidate shall be given an MSDS for the material involved and will also use the Emergency Response Guidebook.

HazMat Operations Core Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
1. Given the dimensions of the endangered area and the surrounding conditions at a hazardous materials/WMD incident, estimate the number and type of exposures within that endangered area.	1. In accordance with the <u>Hazardous Materials Response Guidebook</u> , and <u>appropriate MSDS</u> , the candidate identified the:		
	a. Size of endangered area	___	___
	b. Location of endangered area	___	___
	c. Estimated people exposure	___	___
	d. Estimated environment exposure	___	___
2. Given the concentrations of the released material, identify the factors for determining the extent of physical, health, and safety hazards within the endangered area of a hazardous materials/WMD incident.	2. In accordance with the <u>Hazardous Materials Response Guidebook</u> , and <u>appropriate MSDS</u> , the candidate identified:		
	a. Factors for determining extent of physical hazards	___	___
	b. Factors for determining health hazards	___	___
	c. Factors for determining safety hazards	___	___

HazMat Operations Core Competencies

SKILLS TEST #3: Determining Protective Clothing

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 6, Paragraph 6.2.3.1

Tasks: Given scenarios involving hazardous materials/WMD and chemical examples of compatibility charts, select the appropriate personal protective equipment to be utilized.

HazMat Operations Core Competencies

Performance Test Item

Personnel

Classification: Hazardous Materials Operations

Objective: NFPA Standard 472, Chapter 6, Paragraph 6.2.3.1

Task: Given examples of scenarios involving hazardous materials/WMD incidents and examples of chemical compatibility charts, select the appropriate personal protective equipment to be utilized.

Setting: Fire Department outside training area or equivalent.

Tools

Equipment: Provide the names of three hazardous materials/WMD, the candidate shall then use compatibility charts for chemical protective clothing utilized at the installation at which the candidate is employed to determine the compatibility of suit materials.

Attainment

Standard: Correctly perform the tasks outlined above within 30 minutes.

Evaluator's

Guidance: None.

HazMat Operations Core Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
1. Given three examples of various hazardous materials/WMD, determine the appropriate protective clothing construction materials for a given response option using chemical compatibility charts.	1. In accordance with the provided chemical compatibility charts, the candidate determined:		
	a. Material #1		
	1. Compatibility	(C)	___
	2. Breakthrough time	(C)	___
	b. Material #2		
	1. Compatibility	(C)	___
	2. Breakthrough time	(C)	___
	c. Material #3		
	1. Compatibility	(C)	___
	2. Breakthrough time	(C)	___

HazMat Operations Core Competencies

SKILLS TEST #4: Inspection and Use of Chemical Protective Clothing

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.2.4.1 and 6.2.5.1

Tasks: Given specialized personal protective equipment and appropriate respiratory protection, inspect, record, don, work in, and doff the clothing.

HazMat Operations Core Competencies

Performance Test Item

Personnel

Classification: Hazardous Materials Operations

Objective: NFPA Standard 472, Chapter 6, Paragraphs 6.2.4.1 and 6.2.5.1

Task: Given specialized personal protective equipment and appropriate respiratory protection, inspect, record, don, work in, and doff the clothing.

Setting: Fire Department outside training area or equivalent.

Tools

Equipment: Given a specialized protective garment that the candidate shall be expected to wear during a hazardous materials/WMD incident. Use of the manufacturer's guidance is required for the inspection, recording, and storage of the suits.

Attainment

Standard: Correctly perform the tasks outlined above within 60 minutes.

Evaluator's

Guidance: None.

HazMat Operations Core Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
1. Describe the maintenance, testing, inspection, and storage procedures for personal protective equipment provided by the authority having jurisdiction according to the manufacturer's specifications and recommendations.	1. In accordance with the manufacturers operating instructions, local emergency response plans, and standard operating procedures the candidate described:		
	a. Maintenance procedures	(C)	___ ___
	b. Testing procedures	(C)	___ ___
	c. Inspection procedures	(C)	___ ___
	d. Storage procedures	(C)	___ ___
2. Demonstrate the ability to record and document the use, repair, and testing of personal protective clothing provided by the authority having jurisdiction according to the manufacturer's specifications and recommendations.	2. In accordance with the manufacturers operating instructions, local emergency response plans, and standard operating procedures the candidate demonstrated:		
	a. Use	(C)	___ ___
	b. Repair	(C)	___ ___
	c. Testing	(C)	___ ___
	d. Document	(C)	___ ___
3. Demonstrate donning, working in, and doffing chemical protective clothing in addition to any other specialized protective equipment provided by the authority having jurisdiction.	3. In accordance with the manufacturers operating instructions, local emergency response plans, and standard operating procedures the candidate demonstrated:		
	a. Donning	(C)	___ ___
	b. Working in	(C)	___ ___
	c. Doffing	(C)	___ ___

HazMat Operations Core Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
4. Demonstrate local procedures for responders undergoing the technical decontamination process.	4. Wearing the personal protective equipment provided by the authority having jurisdiction, undergo technical decontamination:		
	a. Gross decon	(C)	___
	b. Secondary decon	(C)	___
	c. PPE removal	(C)	___

HazMat Operations Core Competencies

SKILLS TEST #5: Emergency Decontamination

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 5, Paragraph 5.4.1

Tasks: Demonstrate the ability to perform emergency decontamination.

HazMat Operations Core Competencies

Performance Test Item

Personnel

Classification: Hazardous Materials Operations

Objective: NFPA Standard 472, Chapter 5, Paragraph 5.4.1

Task: Given all the necessary equipment demonstrate the ability to perform emergency decontamination.

Setting: Fire Department outside training area or equivalent.

Tools

Equipment: All tools and equipment necessary to perform the tasks associated with evaluation (Fire vehicles, PPE, etc.)

Attainment

Standard: Correctly perform the tasks outlined above within 30 minutes.

Evaluator's

Guidance: Given all the necessary equipment the candidate is required to perform emergency decontamination. This will require the use of a training exercise involving a spill and a vapor release scenario.

HazMat Operations Core Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
1. Demonstrate the ability to perform emergency decontamination.	1. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u> , the candidate: <ul style="list-style-type: none"> a. Removed the victim from contaminated area (M) _____ b. Washed contaminated person with flooding quantities of water. (M) _____ c. Removed the helmet, or other head gear. (M) _____ d. Removed the SCBA if applicable (M) _____ e. Removed the contaminated clothing (M) _____ f. Moved the victim to a clean area (M) _____ g. Sent victim for medical treatment as soon as decontamination was complete. (M) _____ h. Briefed medical personnel about the contaminants involved. (M) _____ 		

*****STOP: THIS IS THE END OF THE REQUIREMENTS FOR HAZMAT OPERATIONS CORE COMPETENCIES. THE PRECEEDING PERFORMANCE TESTS ARE FOR THE HAZMAT OPERATIONS MISSION SPECIFIC COMPETENCIES (MSC's) AND ARE ONLY REQUIRED IF LOCAL AHJ MANDATES IT. ANY OR ALL OF THE MSC'S CANNOT BE COMPLETED UNTIL YOU RECEIVE HAZMAT OPERATIONS CORE COMPETENCIES CERTIFICATION*****

CDC 47202A

HazMat - Operations

Part 2 - Mission Specific Competencies

Performance Tests



**Air Force Institute for Advanced Distributed Learning
Air University
Air Education and Training Command**

HazMat Operations Mission Specific Competencies

SKILLS TEST #1: Air Monitoring and Sampling

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.7.3.1, 6.7.3.2 and 6.7.4.1

Tasks: Given monitoring equipment and three unknown materials demonstrate air monitoring equipment field maintenance and testing, select the appropriate monitors and classify three unknown materials within 60 minutes.

HazMat Operations Mission Specific Competencies

Performance Test Item

Personnel

Classification: Hazardous Materials Operations – Air Monitoring and Sampling

Objective: NFPA Standard 472, Chapter 6, Paragraphs 6.7.3.1, 6.7.3.2 and 6.7.4.1

Task: Given monitoring equipment and three unknown materials demonstrate air monitoring equipment field maintenance and testing, select the appropriate monitors and classify three unknown materials within 60 minutes.

Setting: Fire Department outside training area or equivalent.

Tools

Equipment: The candidate will be provided and use the monitoring equipment provided by the employer at the installation where the candidate is employed.

Attainment Standard:

Correctly perform the tasks outlined above within 60 minutes.

Evaluator's Guidance:

The candidate is expected to be able to identify unknown materials in the event that a container's shipping papers, placards, MSDS or other identifying items have been destroyed or are unavailable. The candidate will be asked to correctly maintain and field calibrate the equipment prior to analyzing the three given materials. Three materials shall be provided for the candidate to analyze.

HazMat Operations Mission Specific Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
<p>1. Demonstrate the field maintenance and testing procedures for the monitoring equipment, test strips, and reagents provided by the authority having jurisdiction.</p>	<p>1. In accordance with the Manufacturers Operating Instructions for the equipment provided by the authority having jurisdiction, the candidate demonstrated</p>		
	a. Field maintenance	(M)	___ ___
	b. Field testing	(M)	___ ___
<p>2. Given three hazardous materials/WMD, one of which is a solid, one a liquid, and one a gas, and the following monitoring equipment, test strips, and reagents, select the appropriate equipment and demonstrate the proper techniques to identify and classify by hazard each of the materials:</p>	<p>2. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u>, the candidate demonstrated the ability to identify and classify the following by hazard class:</p>		
	a. Material #1 (Solid)	(M)	___ ___
(a) Carbon monoxide meter	1. Selected appropriate equipment	(M)	___ ___
(b) Colorimetric tubes			
(c) Combustible gas indicator	2. Used proper technique	(M)	___ ___
(d) Oxygen meter			
(e) Passive Dosimeters	3. Classified or identified by hazard	(M)	___ ___
(f) pH indicators and/or pH meters			
(g) Photoionization and flame ionization detectors	4. Quantified material	(M)	___ ___
(h) Radiation detection instruments			
(i) Reagents	b. Material #2 (Liquid)	(M)	___ ___
(j) Test strips			
(k) WMD detectors (chemical and biological)	1. Selected appropriate equipment	(M)	___ ___
(l) Other equipment provided by AHJ	2. Used proper technique	(M)	___ ___

HazMat Operations Mission Specific Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO	
	3. Classified or identified by hazard	(M)	___	___
	4. Quantified (pH)	(M)	___	___
c.	Material #3 (Gas)	(M)	___	___
	1. Selected appropriate	(M)	___	___
	2. Equipment	(M)	___	___
	3. Used proper technique	(M)	___	___
	4. Classified or identified by hazard	(M)	___	___
	5. Quantified (Concentration in air)	(M)	___	___

HazMat Operations Mission Specific Competencies

SKILLS TEST #2: Mass Decontamination

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.3.4.1 and 6.3.4.2

Tasks: Given a simulated hazardous materials/WMD scenario, demonstrate the ability to setup and perform a mass decontamination operation for ambulatory and non-ambulatory victims.

HazMat Operations Mission Specific Competencies

Performance Test Item

Personnel

Classification: Hazardous Materials Operations – Mass Decontamination

Objective: NFPA Standard 472, Chapter 6, Paragraphs 6.3.4.1 and 6.3.4.2

Task: Given a simulated hazardous materials/WMD scenario, demonstrate the ability to setup and perform a mass decontamination operation for ambulatory and non-ambulatory victims.

Setting: Fire Department outside training area or equivalent.

Tools

Equipment: IAW local policies and procedures, provide the candidate(s) with all mass decontamination tools/equipment provided by the AHJ to successfully complete this task. (Pumpers, water trucks, decon trailers etc.)

Attainment

Standard: Correctly perform the tasks outlined above within 60 minutes.

Evaluator's

Guidance: The mass decontamination procedure shall be set up in accordance with the local emergency response plan and standard operating procedures for the installation at which the candidate is employed. As a minimum the candidate shall demonstrate the ability to perform the complete mass decontamination process of ambulatory and non-ambulatory victims.

HazMat Operations Mission Specific Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
1. Demonstrate the implementation of the mass decontamination process, based upon local procedures and as specified in the planned response.	1. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u> , local emergency response plans, and standard operating procedures the candidate:		
	a. Provided a victim control station	(M)	___ ___
	b. Provided a victim prioritization station	(M)	___ ___
	c. Provided a removal of personal clothing station	(M)	___ ___
	d. Provided a decon station	(M)	___ ___
	e. Provided a dry and dress station	(M)	___ ___
	f. Provided a medical evaluation station	(M)	___ ___
2. Demonstrate the mass decontamination process specified in the planned response	g. Provided a rest and rehab station	(M)	___ ___
	2. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u> , local emergency response plans, and standard operating procedures the candidate:		
	a. Maintained control of victims	(M)	___ ___
	b. Prioritized victim decon	(M)	___ ___
	c. Removed victims clothing	(M)	___ ___
	d. Deconed with low pressure/high volume	(M)	___ ___

HazMat Operations Mission Specific Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO	
	e. Deconed ambulatory victims	(M)	___	___
	f. Deconed non-ambulatory victims	(M)	___	___
	g. Performed cold weather decon, if applicable	(M)	___	___
	h. Dried and dressed victims	(M)	___	___
	i. Conducted medical evaluations	(M)	___	___
	j. Provided rest and rehab	(M)	___	___

HazMat Operations Mission Specific Competencies

SKILLS TEST #3: Technical Decontamination

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.4.4.1 and 6.4.4.2

Tasks: Given a simulated hazardous materials/WMD scenario, demonstrate the ability to set-up a contamination reduction corridor and perform technical decontamination.

HazMat Operations Mission Specific Competencies

Performance Test Item

Personnel Classification: Hazardous Materials Operations – Technical Decontamination

Objective: NFPA Standard 472, Chapter 6, Paragraphs 6.4.4.1 and 6.4.4.2

Task: Given a simulated hazardous materials/WMD scenario, correctly demonstrate the ability to set-up a contamination reduction corridor and perform technical decontamination.

Setting: Fire Department outside training area or equivalent.

Tools

Equipment: Provide the candidate with details of a hazardous materials/WMD incident as well as the name of the material and the elements of a plan of action that pertains to decontamination. Additionally, provide the candidate all of the local decontamination tools/equipment to successfully complete the task.

Attainment Standard:

Correctly perform the tasks outlined above within 60 minutes.

Evaluator's Guidance:

The decontamination reduction corridor shall be set up in accordance with the local emergency response plan and standard operating procedures for the installation at which the candidate is employed. As a minimum the candidate shall demonstrate the ability to perform the nine-step decontamination process.

HazMat Operations Mission Specific Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
1. Demonstrate setup and implementation of technical decontamination in support of entry operations as specified in the planned response.	1. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u> , local emergency response plans, and standard operating procedures the candidate demonstrated:		
	a. Tool drop station	(C)	___ ___
	b. Primary wash station	(C)	___ ___
	c. Suit or SCBA removal station	(C)	___ ___
	d. Removal of personal clothing station	(C)	___ ___
	e. Decontamination of body station for ambulatory and nonambulatory victims	(C)	___ ___
	f. Dry and dress in clean garment station	(C)	___ ___
	g. Medical evaluation station	(C)	___ ___
	h. Rest and Rehab station	(C)	___ ___
2. Demonstrate the decontamination process specified in the planned response.	2. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u> , local emergency response plans, and standard operating procedures the candidate demonstrated:		
	a. Primary wash	(C)	___ ___
	b. Suit/SCBA removal station	(C)	___ ___
	c. Removal of personal clothing station	(C)	___ ___
	d. Decontamination of body station	(C)	___ ___

HazMat Operations Mission Specific Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
<p>3. Demonstrate setup and implementation of technical decontamination operations involving ambulatory and nonambulatory victims as specified in the planned response.</p>	<p>3. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u>, local emergency response plans, and standard operating procedures the candidate:</p> <ul style="list-style-type: none"> a. Separated ambulatory (walking) from nonambulatory (non-walking) victims b. Selected the appropriate decon method based on the contaminant c. Appropriately protected airway and injuries d. Ensured coordination with medical personnel e. Collected and tagged all possessions, as appropriate 	<p>(C)</p> <p>(C)</p> <p>(C)</p> <p>(C)</p> <p>(C)</p>	<p>___</p> <p>___</p> <p>___</p> <p>___</p> <p>___</p>

HazMat Operations Mission Specific Competencies

SKILLS TEST #4: Evidence Preservation and Sampling

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 6, Paragraph 6.5.4.1

Tasks: Given the incident action plan for a criminal incident involving hazardous materials/WMD, demonstrate the ability to select and implement the proper evidence preservation and sampling procedure for the incident and demonstrate the ability to perform evidence preservation and sampling.

HazMat Operations Mission Specific Competencies

Performance Test Item

Personnel Classification: Hazardous Materials Operations – Evidence Preservation and Sampling

Objective: NFPA Standard 472, Chapter 6, Paragraph 6.5.4.1

Task: Given the incident action plan for a criminal incident involving hazardous materials/WMD, demonstrate the ability to select and perform proper evidence preservation and sampling procedures.

Setting: Fire Department outside training area or equivalent.

Tools

Equipment: Given all necessary tools and equipment provided by the AHJ and local law enforcement to conduct evidence preservation and sampling. (Quicksilver kits, evidence collection kits etc.)

Attainment Standard:

Correctly perform the tasks outlined above within 60 minutes.

Evaluator's Guidance:

The evidence preservation and sampling procedures shall be set up in accordance with the local emergency response plan and standard operating procedures for the installation at which the candidate is employed. As a minimum the candidate shall demonstrate the ability to properly perform the complete evidence preservation and sampling process.

HazMat Operations Mission Specific Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
1. Demonstrate the ability to select the proper evidence preservation and sampling procedure for the incident and demonstrate the ability to perform evidence preservation and sampling.	1. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u> , local emergency response plans, and standard operating procedures the candidate:		
	a. Secured and characterized the scene	(M)	___ ___
	b. Documented scene activities	(M)	___ ___
	c. Determined legal authority to perform tasks	(M)	___ ___
	d. Notified appropriate investigative authority	(M)	___ ___
	e. Notified EOD	(M)	___ ___
	f. Identified potential samples and evidence to be collected	(M)	___ ___
	g. Protected samples and evidence from secondary contamination	(M)	___ ___
	h. Demonstrated proper collection techniques	(M)	___ ___
	i. Demonstrated proper documentation procedures	(M)	___ ___
	j. Demonstrated proper sampling protocols	(M)	___ ___
	k. Demonstrated field screening protocols for samples and evidence collected	(M)	___ ___
l. Demonstrated proper evidence labeling and packaging procedures	(M)	___ ___	

HazMat Operations Mission Specific Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
m. Demonstrated evidence decontamination procedures	(M)	___	___
n. Demonstrated evidence packaging procedures for transportation	(M)	___	___

HazMat Operations Mission Specific Competencies

SKILLS TEST #5: Product Control

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 6, Paragraph 6.6.4.1

Tasks: Given an incident action plan for a hazardous materials/WMD incident and the equipment provided by the authority having jurisdiction, correctly demonstrate control functions set out in the Incident Action Plan (IAP).

HazMat Operations Mission Specific Competencies

Performance Test Item

Personnel Classification: Hazardous Materials Operations - Product Control

Objective: NFPA Standard 472, Chapter 6, Paragraph 6.6.4.1

Task: Given an IAP for a hazardous materials/WMD incident and the equipment provided by the authority having jurisdiction, correctly demonstrate the control functions set out in the IAP.

Setting: Fire Department outside training area or equivalent.

Tools

Equipment: All tools and equipment necessary to perform tasks associated with evaluation (Fire vehicles, PPE, hose, LPG trainers, Pepper foggers, etc.)

Attainment

Standard: Correctly perform the tasks outlined above within 240 minutes.

Evaluator's

Guidance: Given all the necessary equipment demonstrate the performance of defensive control activities; (a) absorption, (b) adsorption (c) damming, (d) diking, (e) dilution, (f) diversion, (g) retention, (h) vapor dispersion, (i) vapor suppression, proper application of foam(s) or vapor suppressing agent(s), and emergency decontamination. This will require the use of a training exercise involving a spill and a vapor release scenario. The dispersion and suppression of vapors may be accomplished with the use training smoke (i.e., Pepper Fogger) to simulate the presence of vapor.

HazMat Operations Mission Specific Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
1. Demonstrate how to perform defensive control activities and proper application of foams or vapor suppressing agents.	1. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u> , the candidate performed:		
	a. Absorption	(M)	___ ___
	b. Adsorption	(M)	___ ___
	c. Damming	(M)	___ ___
	d. Diking	(M)	___ ___
	e. Dilution	(M)	___ ___
	f. Diversion	(M)	___ ___
	g. Retention	(M)	___ ___
	h. Remote valve shutoff	(M)	___ ___
	i. Vapor Dispersion	(M)	___ ___
j. Vapor Suppression	(M)	___ ___	

HazMat Operations Mission Specific Competencies

SKILLS TEST #6: Victim Rescue and Recovery

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 6, Paragraph 6.8.4.1

Tasks: Given a scenario involving a hazardous materials/WMD incident, demonstrate the ability to select the proper victim rescue and recovery procedure and perform victim rescue and recovery.

HazMat Operations Mission Specific Competencies

Performance Test Item

Personnel Classification: Hazardous Materials Operations – Victim Rescue and Recovery

Objective: NFPA Standard 472, Chapter 6, Paragraph 6.8.4.1

Task: Given a scenario involving a hazardous materials/WMD incident, demonstrate the ability to select the proper victim rescue and recovery procedure and perform victim rescue and recovery.

Setting: Fire Department outside training area or equivalent.

Tools

Equipment: Given all necessary tools and equipment provided by the AHJ to successfully perform victim rescue and recovery for a given situation.

Attainment

Standard: Correctly perform the tasks outlined above within 90 minutes.

Evaluator's

Guidance: The victim rescue, triage, and recovery procedures shall be set up in accordance with the local emergency response plan and standard operating procedures for the installation at which the candidate is employed. As a minimum, the candidate shall demonstrate the ability to perform a complete victim rescue and recovery operation.

HazMat Operations Mission Specific Competencies

SKILLS TEST #7: Illicit Lab Response

Performance Test Summary Sheet

Objectives: NFPA Standard 472, Chapter 6, Paragraphs 6.9.4.1.1 and 6.9.4.1.2

Tasks: Given a simulated hazardous materials scenario, demonstrate the ability to describe an Illicit Laboratory process and perform Illicit Laboratory response procedures.

HazMat Operations Mission Specific Competencies

Performance Test Item

Personnel Classification: Hazardous Materials Operations – Illicit Lab Response

Objective: NFPA Standard 472, Chapter 6, Paragraph 6.9.4.1.1

Task: Given a simulated illicit lab/WMD laboratory scenario, demonstrate the ability to perform decontamination of law enforcement personnel or animals, identify and avoid booby traps, and conduct joint operations with EOD.

Setting: Fire Department outside training area or equivalent.

Tools

Equipment: Given all necessary tools and equipment provided by the AHJ to safely and effectively perform the duties outlined above.

Attainment Standard:

Correctly perform the tasks outlined above within 120 minutes.

Evaluator's Guidance:

The illicit laboratory procedure shall be set up in accordance with the local emergency response plan and standard operating procedures for the installation at which the candidate is employed. As a minimum, the candidate shall demonstrate the ability to perform all of the processes outlined above.

HazMat Operations Mission Specific Competencies

ELEMENTS/STEPS	STANDARDS	YES	NO
1. Demonstrate the ability to perform decontamination of law enforcement personnel or animals, identify and avoid booby traps, and conduct joint operations with EOD.	1. In accordance with the <u>Hazardous Materials Response Handbook (5th Edition)</u> , local emergency response plans, and standard operating procedures:		
	a. Developed a plan of action for Law Enforcement to secure the scene	(C)	___
	b. Demonstrated decontamination of tactical law enforcement personnel or animals securing an illicit lab	(C)	___
	c. Identified booby traps and unsafe conditions	(C)	___
	d. Conducted joint operations with EOD	(C)	___

Performance Test Record

HazMat – Operations Core Competencies

INSTRUCTIONS: This form must be completed and kept on file. A copy of this form is also required to be submitted with the candidate's certification package.

Performance Test Ref # _____ Date of Evaluation _____

Candidate's Name _____ SSN _____

Evaluator's Name _____ SSN _____

The candidate has PASSED/FAILED the Hazardous Materials - Operations Performance Tests for the stations marked below:

STATION	PASSED	FAILED
Collecting Hazard and Response Information	_____	_____
Estimating Potential Harm	_____	_____
PPE Selection	_____	_____
Don/Doff/Work In PPE	_____	_____
Emergency Decontamination	_____	_____

If candidate has failed the performance evaluation, provide the following information:
(Use additional sheets, if necessary)

Objective(s):

Reason(s) for failure:

Candidate's Signature _____

Evaluator's Signature _____

"FOUO. This document contains information exempt from mandatory disclosure under the FOIA. Exemption 5 U.S.C. 552(b)(6) applies. This information is also protected by the Privacy Act of 1974 and must be safeguarded from unauthorized disclosure."

Performance Test Record

HazMat – Operations Mission Specific Competencies

INSTRUCTIONS: This form must be completed and kept on file. A copy of this form is also required to be submitted with the candidate's certification package.

Performance Test Ref # _____ Date of Evaluation _____

Candidate's Name _____ SSN _____

Evaluator's Name _____ SSN _____

The candidate has PASSED/FAILED the Hazardous Materials - Operations Performance Tests for the stations marked below:

STATION	PASSED	FAILED
Air Monitoring and Sampling	_____	_____
Mass Decontamination	_____	_____
Technical Decontamination	_____	_____
Evidence Preservation and Sampling	_____	_____
Product Control	_____	_____
Victim Rescue and Recovery	_____	_____
Response to Illicit Labs	_____	_____

If candidate has failed the performance evaluation, provide the following information:
(Use additional sheets, if necessary)

Objective(s):

Reason(s) for failure:

Candidate's Signature _____

Evaluator's Signature _____

"FOUO. This document contains information exempt from mandatory disclosure under the FOIA. Exemption 5 U.S.C. 552(b)(6) applies. This information is also protected by the Privacy Act of 1974 and must be safeguarded from unauthorized disclosure."