

CDC 47209

**Hazardous Materials
Branch Officer**

Volume 1: Instructor Guide Sheets



Air Force Institute for Advanced Distributed Learning

Air University

Air Education and Training Command

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READ THIS BEFORE STARTING THE COURSE

Welcome to the Career Development Course (CDC) program, a vital element of the Department of Defense (DOD) Fire and Emergency Services Certification Program. If this is your first attempt at a CDC, we recommend you read DOD Manual 6055.6, *Department of Defense (DOD) Fire and Emergency Services Certification Program* and watch the Department of Defense Fire Fighter Certification Program Video DOD P/N 612888. If this is not your first CDC, we're pleased that you are progressing well through the certification program and encourage you to continue your efforts to complete this CDC and obtain your certification for Hazardous Materials Branch Officer level.

These requirements are extracted from the 2002 Edition of National Fire Protection Association (NFPA) 472: *Standard for Professional Competence of Responders to Hazardous Materials Incidents* and is the basis for all 6 units of instruction. Each unit is to be used in conjunction with the NFPA standard to ensure that all information is covered. Because of the unique nature of the NFPA Job Performance Requirement (JPR) format, many topics may be repeated. While it is necessary to only study the information once, the candidate must realize that questions on such information may be asked in any objective to which the NFPA or the Instructor Guide Sheets refer to. Any areas of the course where Department of Defense enhancements were made to the NFPA standards, a candidate will find the text *italicized*.

A number of the competencies for the Hazardous Materials Branch Officer certification course are based upon identical competencies for the Incident Commander found in Chapter 7 of the NFPA Hazardous Materials Handbook. When reviewing the NFPA Handbook, you will find areas where the background and rationale for a specific competency are not outlined in Chapter 9 (Hazardous Materials Branch Officer), but may be found in Chapter 7 (Incident Commander). These competencies have been noted in the Reference Column of the Instructor Guide Sheets.

HOW TO USE THIS COURSE

Your CDC consists of two separate booklets, each of which carries with it a different requirement. The successful completion of both of these requirements results in DOD firefighter certification at the Hazardous Materials Branch Officer level.

First let's look at the academic portion.

Instructor Guide Sheets are used to steer you through the course of study.

At the beginning of the course, a **Course Objective** is specified so that you, the student, know exactly what your overall attainment goal should be for this CDC.

A **Learning Objective** is specified at the beginning of each Unit to give you, the student, guidance on what your attainment goal should be for each Unit.

The Guide Sheets are then broken into four columns.

Column one indicates the **Air Force Institute on Advanced Distributed Learning (AFIADL) Knowledge Objective**. Knowledge Objective (KO) numbers shown in the extreme left column of the Instructor Guide Sheets are primarily for AFIADL tracking purposes but may be used by candidates for correlation to the Certification Course Review Exercises used in the Computer based testing program CerTest (see the CerTest Procedural Guide for more information).

Column two indicates the **NFPA Objective**, which directly correlates to each NFPA 472, line item.

Column three indicates the **Topical Area**, which contains the outline of information.

Column four is the **Reference** area, whereas reference notations are made to steer you, the student, to the information necessary to become a success story. All questions on CerTest and AFIADL's End-Of-Course tests are derived from these references.

Second, we will look at the performance tests.

These performance tests provide detailed performance checklist items for candidate testing. Performance Tests cannot be conducted until the candidate has successfully completed the academic part of the CDC. However, it is strongly encouraged that you use this supplement and the checklist it contains throughout the normal course of study.

Candidates may practice the performance evaluations at anytime during study and up until performance testing is conducted. Practice is highly encouraged.

This particular course uses four workstations. Within each workstation there are several tasks and objectives (NFPA line items). A "Performance Summary Sheet" precedes each workstation or group of evaluated tasks. This sheet lists the NFPA line items evaluated and the specific tasks to be done. Each performance test lists the setting and tools/equipment needed for the listed tasks.

Candidate/Supervisor/Trainer Responsibilities

The supervisor/trainer and candidate should immediately discuss the following information when this course is received:

1. Candidate responsibilities

a. You will become certified from this training; therefore, you must put forth the most effort. You are responsible to fully research and study those subject areas listed in the Instructor Guide Sheets. You must apply yourself to the training, both academic and performance.

b. **Prerequisites for Fire Service Professionals**—A candidate from the fire service must first satisfy the following pre-requisites in order to take this course:

- Certified through the DOD Fire Fighter Certification System to the Hazardous Materials Technician for three years OR certified through the DOD FireFighter Certification System to the Hazardous Materials Technician for two years and has graduated from the DOD Hazardous Materials Train-the-Trainer Course.
- Certified as Fire Officer I through the DOD Fire Fighter Certification System.
- Certified as Hazardous Materials Incident Commander through the DOD Fire Fighter Certification System.

c. **Prerequisites for Non-Fire Service Personnel**—A candidate from outside of the fire service must first satisfy the following pre-requisites in order to take this course:

- Certified through the DOD Fire Fighter Certification System to the Hazardous Materials Technician for three years OR certified through the DOD Fire Fighter Certification System to the Hazardous Materials Technician for two years and has graduated from the DOD Hazardous Materials Train-the-Trainer Course.
- Certified as Hazardous Materials Incident Commander through the DOD Fire Fighter Certification System.
- Certified to the seven-level or a civilian first-line supervisor within their profession.

d. Learn the knowledge requirements as specified in Chapter 9 of NFPA Standard 472 (2002 edition) and successfully complete the paper-based or computer-based final examination at an Air Force Institute for Advanced Distributed Learning (AFIADL) test control facility.

e. Successfully complete a two-part performance test process. Performance tests can not be conducted until the candidate has successfully completed the academic part of the CDC.

- Part I of the required performance test addresses the skill competencies outlined in Supplement 1—Performance Tests, and shall be completed at the local installation. Part I performance test notification must be made ten days before the actual performance test beginning or the candidate stands the chance of the results NOT being accepted by the administrative center. For specific guidance consult DoD Manual 6055.6. Performance test notifications may be made at <http://www.dodffcert.com/performance/notify.cfm>
- Part II of the required performance test consists of an exercise scenario and an oral interview with HQ AFCESA/CEXF. HQ AFCESA provides the candidate with an incident scenario, for which the candidate must develop a written incident action plan. The written incident action plan is then submitted to HQ AFCESA and a subsequent oral interview is scheduled with the candidate.

f. Once you have successfully passed the written and performance tests for Hazardous Materials Branch Officer you will become certified through the Department of Defense, Fire Fighter Certification System, which is accredited by the International Fire Service Accreditation Congress (IFSAC) and the National Board on Fire Service Professional Qualifications (NPQS).

2. Supervisor/trainer responsibilities

- a. The candidate is ultimately responsible for mastering the information contained in this course; however, you as the trainer must reinforce the information and make sure that the candidate achieves the competency level required by the NFPA standard.
- b. Trainers should use the Hazardous Materials Managing the Incident, 3rd edition and NFPA 472 Handbook 2002 edition. Training classes, either one-on-one or group oriented, are the best way to present new information or review information that the candidate has already researched.

The use of a name of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Department of Defense.

To obtain a response to your questions concerning the subject matter in this course, or to point out technical errors within the course, Certification Course Review Exercises and/or the course examination call or write the CDC author using the contact information on the inside front cover of this volume.

For additional questions, outside of those highlighted in the above paragraph, contact AFIADL by way their new customer support website. “eCustomer Support” at http://afiadl.custhelp.com/cgi-bin/afiadl.cfg/php/enduser/std_alp.php

NOTE: When you complete this course, please complete the student survey using the Internet at: <http://www.maxwell.af.mil/au/afiadl/main.htm>.

This volume is valued at 9 hours and 3 points.

Acknowledgement

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Unit 1. General Requirements.....1
Objectives: NFPA Standard 472, Chapter 9, para. 9.1

Unit 2. Analyzing the Incident.....2
Objectives: NFPA Standard 472, Chapter 9, para. 9.2

Unit 3. Planning the Response.....3
Objectives: NFPA Standard 472, Chapter 9, para. 9.3

Unit 4. Implementing the Planned Response6
Objectives: NFPA Standard 472, Chapter 9, para. 9.4

Unit 5. Evaluating Progress.....9
Objectives: NFPA Standard 472, Chapter 9, para. 9.5

Unit 6. Terminating the Incident10
Objectives: NFPA Standard 472, Chapter 9, para. 9.6

Student Notes

Hazardous Materials Branch Officer

Instructor Guide Sheets

Course Objective: Using only NFPA Standards, the NFPA *Hazardous Materials Response Handbook, Fourth Edition* and *Hazardous Materials: Managing the Incident, Third Edition*, comprehend the job requirements for the Hazardous Materials Branch Officer level by obtaining a minimum passing score of 65% on the end of course examination.

Unit 1: Hazardous Materials Branch Officer General Requirements

Objective. Given the *Hazardous Materials Response Handbook* and this Instructor Guide Sheet, review the general knowledge/skill requirements.

<i>AFIADL Learning Objective#</i>	<i>NFPA Objective#</i>	<i>Topical Areas (Referring to the NFPA Objective, review the following topics using the your reference material)</i>	<i>Reference</i>
001	9.1.1	<p style="text-align: center;">General</p> <p>The general knowledge/skill requirements of a Hazardous Materials Branch Officer Level are:</p> <p>A. Introduction</p>	<i>Hazardous Materials Response Handbook Chapter 9</i>
	9.1.2	<p>B. Goal</p> <ol style="list-style-type: none"> 1. Determine the magnitude of the problem by estimating potential outcomes. 2. Plan a response within capabilities of available resources. This includes (1) identifying response objectives; (2) identifying potential tactical options; (3) determine PPE requirements; and (4) provide recommendations to the Incident Commander for the development of a plan of action. 3. Implement the response. This includes implementing the incident management system and directing HazMat Branch Resources. 4. Evaluate the effectiveness of the response. 5. Terminate the incident, including conducting a debriefing and critique for HazMat Branch personnel, and reporting and documenting HazMat Branch operations. 	<i>Local Policies</i>

Unit 2: Analyzing the Incident

Objective: Given the *Hazardous Materials Response Handbook*, *Hazardous Materials: Managing the Incident*, and this Instructor Guide Sheet, review these knowledge/skill requirements.

<i>AFIADL Learning Objective#</i>	<i>NFPA Objective#</i>	<i>Topical Areas (Referring to the NFPA Objective, review the following topics using your reference material)</i>	<i>Reference</i>
002	9.2.1	<p>Estimating potential outcomes of a hazardous material incident</p> <p>A. Analyze the physical, cognitive, and technical information available to predict the behavior of the container and its contents</p> <p>B. Evaluating risks:</p> <ol style="list-style-type: none"> 1. Stress Event 2. Breach Event 3. Release Event 4. Engulfing Event 5. Impingement (Contact) Event 6. Harm Event <p>C. Estimating outcomes</p> <ol style="list-style-type: none"> 1. Consider the natural outcome if responders do nothing and people were kept away <p>D. Developing the Incident Action Plan. Response objectives should be considered if they will improve the outcome of the incident</p>	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p><i>Hazardous Materials: Managing the Incident</i> Chapters 7 & 10</p>

Note: Now that you have completed this portion of your knowledge training, apply this knowledge using the Performance Test supplement and start preparing for your final performance evaluation.

Performance Objective: Using information typically available to the Branch Officer complete the following performance tasks as stated.

P.O # 1: Given simulated facility or transportation incidents involving hazardous materials, the surrounding conditions, and the predicted behavior of a container and its contents estimate the potential outcomes within the endangered area. (9.2.1)

Unit 3: Planning the Response

Objective: Given the *Hazardous Materials Response Handbook*, *Hazardous Materials: Managing the Incident*, *Local Policies* and this Instructor Guide Sheet, review these knowledge/skill requirements.

<i>AFIADL Learning Objective#</i>	<i>NFPA Objective#</i>	<i>Topical Areas</i> <i>(Referring to the NFPA Objective, review the following topics using your reference material)</i>	<i>Reference</i>
003	9.3.1	<p>Selecting proper personal protective clothing and equipment</p> <ul style="list-style-type: none"> A. Types / levels of personal protective clothing <ul style="list-style-type: none"> 1. Structural firefighting gear 2. Chemical protective clothing <ul style="list-style-type: none"> a. Level A b. Level B c. Level C d. Level D 3. High temperature protective clothing <ul style="list-style-type: none"> a. Proximity / Airport Rescue and Firefighting clothing (ARFF) B. Types of respiratory protection <ul style="list-style-type: none"> 1. Self Contained Breathing Apparatus (SCBA) 2. Supplied Air Breathing Apparatus 3. Air Purifying Respirator (APR) 4. Powered Air Purifying Respirator (PAPR) C. Evaluate chemical compatibility / breakthrough time D. Manufacturer's recommendations 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p><i>Hazardous Materials: Managing the Incident</i> Chapter 8</p>
004	9.3.2 (1)	<p>Steps for developing a plan of action</p> <ul style="list-style-type: none"> A. Components to be considered <ul style="list-style-type: none"> 1. Site restrictions 2. Entry objectives 3. On-scene organization and control 4. Personnel protective equipment selection 5. Hazard evaluation 6. Communication procedures 7. Emergency procedures and personal accountability 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p><i>Hazardous Materials: Managing the Incident</i> Chapters 7 & 10</p>

	9.3.2 (4)	<ol style="list-style-type: none"> 8. Emergency medical care arrangements 9. Rehabilitation plan 10. Decontamination procedures 11. On-scene work assignments (branches) 12. Debriefing and critique <p>B. Evaluating the effectiveness of action options</p> <ol style="list-style-type: none"> 1. Compare direct observations with expected outcomes listed in plan of action 2. Consider expected time frames 	
005	9.3.2 (2)	<p>Factors in considering public protective actions</p> <p>A. Reduce or prevent contamination of people potentially or directed exposed to the HM</p> <p>B. Tactical Options</p> <ol style="list-style-type: none"> 1. Evacuation 2. Protection-in-Place <p>C. Protection-in-Place</p> <ol style="list-style-type: none"> 1. Close windows and doors 2. Turn off ventilation 3. Provide information updates <p>D. Notification</p> <p>E. Information Updates</p>	<p><i>Hazardous Materials Response Handbook Chapter 9</i></p> <p><i>Hazardous Materials: Managing the Incident Chapter 5</i></p>
006	9.3.2 (3)	<p><i>Local procedures to accomplish the following tasks:</i></p> <p>A. Make on-going assessment of the incident</p> <p>B. Command on-scene HazMat Branch personnel</p> <p>C. Coordinate support and mutual aid</p> <p>D. Provide for public protection actions</p> <p>E. Coordinate fire suppression services</p> <p>F. Coordinate hazardous materials branch operations</p> <p>G. Coordinate medical assistance</p> <p>H. Coordinate on-scene decontamination</p> <p>I. Coordinate cleanup services</p>	<p><i>Hazardous Materials Response Handbook Chapter 9</i></p> <p><i>Local Policies</i></p>

007	9.3.2 (5)	<p>Pre-entry activities to be performed</p> <p>A. Consistent with the local emergency response plan and standard operating procedures</p> <ol style="list-style-type: none"> 1. Pre-entry medical monitoring 2. Review plan of action 3. Site safety briefing 	<p><i>Hazardous Materials Response Handbook Chapter 9</i></p> <p><i>Hazardous Materials: Managing the Incident Chapters 2 & 8</i></p> <p>Local Policies</p>
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Note: Now that you have completed this portion of your knowledge training, apply this knowledge using the Performance Test supplement and start preparing for your final performance evaluation.

Performance Objective: Using information typically available to the Branch Officer complete the following performance tasks as stated.

P.O # 2: Given a situation with known and unknown hazardous materials, select the personal protective equipment for the action options specified in the plan of action in each situation (9.3.1)

P.O #3: Given simulated facility and transportation hazardous materials incidents, develop a plan of action consistent with the LERP and the organizational SOPs that is within the capability of available personnel, PPE, and control equipment. (9.3.2)

Unit 4: Implementing the Planned Response

Objective: Given the *Hazardous Materials Response Handbook*, *Hazardous Materials: Managing the Incident*, Local Policies and this Instructor Guide Sheet, review these knowledge/skill requirements.

<i>AFIADL Learning Objective#</i>	<i>NFPA Objective#</i>	<i>Topical Areas</i> (Referring to the NFPA Objective, review the following topics using your reference material)	<i>Reference</i>
008	9.4.1 (4)	Duties and responsibilities of HazMat Branch functions and elements of incident management system <ul style="list-style-type: none"> A. Decontamination B. Entry / Backup C. Hazardous materials branch management D. Hazardous materials branch safety E. Information / Research / Science F. Site access control G. Elements of Incident Management System <ul style="list-style-type: none"> 1. Incident Commander 2. Command staff 3. Planning Section 4. Logistics Section 5. Operations Section 6. Staging 7. Finance / Administration Section 	<i>Hazardous Materials Response Handbook</i> Chapter 7 <i>Hazardous Materials: Managing the Incident</i> Chapter 3
009	9.4.1 (2) 9.4.1 (3)	Steps for implementing local emergency response plan and related emergency response plans and related elements <ul style="list-style-type: none"> A. Initial notification B. Emergency response plan elements <ul style="list-style-type: none"> 1. Pre-emergency planning and coordination 2. Personnel roles, lines of authority, training, and communication 3. Emergency recognition and prevention 4. Safe distances and places of refuge 5. Site security and control 6. Evacuation routes and procedures 	<i>Hazardous Materials Response Handbook</i> Chapter 9 Local Policies

		<ol style="list-style-type: none"> 7. Decontamination 8. Emergency medical treatment and first aid 9. Alerting and response procedures 10. Critique response and follow-up 11. Personal protective equipment and emergency equipment 	
010	9.4.1 (1)	<p>Procedures for obtaining cleanup and restoration services</p> <ol style="list-style-type: none"> A. Local emergency response plan and standard operating procedures B. Local agreements C. Contract services 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p>Local Policies</p>
011	9.4.1 (5)	<p>Regulatory authority of local, state, regional, and federal authorities pertaining to the production, transportation, storage, and use of hazardous materials and disposal of hazardous wastes</p> <ol style="list-style-type: none"> A. Local emergency response plan will identify and delineate roles B. Local emergency response plan will identify functions for each incident type and response level 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p>Local Policies</p>
012	9.4.1 (6)	<p>Governmental agencies providing hazardous materials incident assistance</p> <ol style="list-style-type: none"> A. Resources <ol style="list-style-type: none"> 1. U.S. Coast Guard 2. U.S. Environmental Protection Agency 3. State and local government agencies 4. CHEMTREC 5. Local industry B. Role and type of assistance available 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p>Local Policies</p>

013	9.4.2	<p>Criteria and factors for directing both private and governmental resources</p> <ul style="list-style-type: none"> A. Task assignment B. Operational safety C. Operational effectiveness D. Planning support E. Information/research F. Logistical support G. Administrative support 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p><i>Hazardous Materials: Managing the Incident</i> Chapter 3</p> <p>Local Policies</p>
014	9.4.3	<p>Providing a focal point for the information transfer to media and elected officials</p> <ul style="list-style-type: none"> A. Policy for providing information to the media should be included in local emergency response plan and standard operating procedures B. Accurate information can prevent public panic C. Media can assist in a hazardous materials incident D. Responsibilities of the Public Information Officer (PIO) <ul style="list-style-type: none"> 1. Part of incident commanders staff 2. Spokesperson for the incident 3. Establishes press area in safe location 4. Provide escorts if necessary 	<p><i>Hazardous Materials Response Handbook</i> Chapters 7 & 9</p> <p>Local Policies</p>

Note: Now that you have completed this portion of your knowledge training, apply this knowledge using the Performance Test supplement and start preparing for your final performance evaluation.

Performance Objective: Using information typically available to the Branch Officer complete the following performance tasks as stated.

P.O # 4: Given a copy of the LERP identify the requirements of the plan, including the required procedures for notification and utilization of non-local resources. (9.4.1)

P.O #5: Given a simulated hazardous materials incident and the necessary resources to implement the planned response, demonstrate the ability to direct the hazardous materials branch resources in a safe and efficient manner consistent with the capabilities of those resources. (9.4.2)

P.O #6: Given a simulated hazardous materials incident, demonstrate the ability to act as a resource to provide information to the incident commander or the public information officer for distribution to the media and local, state, and federal officials. (9.4.3)

Unit 5: Evaluating Progress

Objective: Given the *Hazardous Materials Response Handbook*, *Hazardous Materials: Managing the Incident*, Local Policies and this Instructor Guide Sheet, review these knowledge/skill requirements.

<i>AFIADL Learning Objective#</i>	<i>NFPA Objective#</i>	<i>Topical Areas</i> (Referring to the NFPA Objective, review the following topics using your reference material)	<i>Reference</i>
015	9.5.1.1	Evaluate the effectiveness of action options in accomplishing objectives	<i>Hazardous Materials Response Handbook</i> Chapters 7 & 9
	9.5.1.2	<ul style="list-style-type: none"> A. Considerations of the incident <ul style="list-style-type: none"> 1. Is the incident stabilizing? 2. Is the incident increasing in intensity? B. Comparing actual behavior <ul style="list-style-type: none"> 1. Is incident happening as predicted? 2. Is incident occurring out of sequence? 3. Is incident happening differently than expected? 	
	9.5.1.3	<ul style="list-style-type: none"> C. Determine the effectiveness of <ul style="list-style-type: none"> 1. Hazardous materials response personnel being used 2. Personal protective equipment 3. Established control zones 4. Control, containment, or confinement operations 5. Decontamination process 	Local Policies

Note: Now that you have completed this portion of your knowledge training, apply this knowledge using the Performance Test supplement and start preparing for your final performance evaluation.

Performance Objective: Using information typically available to the Branch Officer complete the following performance tasks as stated.

P.O # 7: Given simulated facility and transportation hazardous materials incident, evaluate the progress of the plan of action to determine whether the efforts are accomplishing the response objectives. (9.5.1)

Unit 6: Terminating the Incident

Objective: Given the *Hazardous Materials Response Handbook*, *Hazardous Materials: Managing the Incident*, Local Policies and this Instructor Guide Sheet, review these knowledge/skill requirements.

<i>AFIADL Learning Objective#</i>	<i>NFPA Objective#</i>	<i>Topical Areas (Referring to the NFPA Objective, review the following topics using your reference material)</i>	<i>Reference</i>
016	9.6.1.1	Steps in terminating the emergency phase of an incident A. Transfer command B. Debriefing C. Critiquing the incident D. After action activities, such as restocking any disposables or damaged equipment	<i>Hazardous Materials Response Handbook</i> Chapter 9 <i>Hazardous Materials: Managing the Incident</i> Chapter 12
017	9.6.1.2 9.6.2.5	Procedures for conducting a debriefing A. Identified in local emergency response plan and standard operating procedures B. Not a critique C. Gather incident information D. Document incident information	<i>Hazardous Materials Response Handbook</i> Chapter 9 <i>Hazardous Materials: Managing the Incident</i> Chapter 12 Local Policies
018	9.6.1.4	Transferring command A. To a higher authority B. Transfer of authority from one person to another C. From emergency to post-emergency phase of incident	<i>Hazardous Materials Response Handbook</i> Chapters 7 & 9 <i>Hazardous Materials: Managing the Incident</i> Chapter 12 Local Policies
019	9.6.2.1	Components of an effective debriefing A. Identify who responded	<i>Hazardous Materials Response Handbook</i> Chapter 9

		<ul style="list-style-type: none"> B. What responders did C. Document injuries D. Indicate medical follow-up E. Equipment damage F. Note unsafe conditions 	<i>Hazardous Materials: Managing the Incident</i> Chapter 12
020	9.6.2.2	<p>Key topics in an effective debriefing</p> <ul style="list-style-type: none"> A. Identity of materials B. Signs and symptoms of exposure C. Signs of critical incident stress D. The duration of a recommended observation period for signs and symptoms E. Procedures to follow in the event of delayed presentation of signs and symptoms F. Post incident medical contact G. Safety and health hazards remaining at the site 	<i>Hazardous Materials Response Handbook</i> Chapter 9 <i>Hazardous Materials: Managing the Incident</i> Chapter 12
021	9.6.2.3	<p>When a debriefing should take place</p> <ul style="list-style-type: none"> A. Identified in local emergency response plan and standard operating procedures B. As soon as practical so that responders still have a fresh recall of all the incident details. May be at scene or upon return to quarters. 	<i>Hazardous Materials Response Handbook</i> Chapter 9 <i>Hazardous Materials: Managing the Incident</i> Chapter 12 Local Policies

022	9.6.2.4	<p>Who should be involved in a debriefing</p> <ul style="list-style-type: none"> A. Identified in local emergency response plan and standard operating procedures B. Determined by the incident commander 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p><i>Hazardous Materials: Managing the Incident</i> Chapter 12</p> <p>Local Policies</p>
023	9.6.3.1	<p>Components of an effective critique</p> <ul style="list-style-type: none"> A. Identified in local emergency response plan and standard operating procedures B. Reviews incident to identify and document lessons learned C. What worked well and what did not D. Positive process that allows for modifications of response procedures 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p><i>Hazardous Materials: Managing the Incident</i> Chapter 12</p> <p>Local Policies</p>
024	9.6.3.2	<p>Who should be involved in a critique</p> <ul style="list-style-type: none"> A. Identified in local emergency response plan and standard operating procedures B. Incident Commander should hold initial meeting to identify specific personnel to participate C. Representatives from all responding agencies or groups 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p><i>Hazardous Materials: Managing the Incident</i> Chapter 12</p> <p>Local Policies</p>
025	9.6.3.3	<p>Necessity of an effective critique</p> <ul style="list-style-type: none"> A. Provides opportunity to improve from lessons learned B. Improves safety and health of responders to future incidents 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p><i>Hazardous Materials: Managing the Incident</i> Chapter 12</p>
026	9.6.3.4	<p>Written documents that should be prepared as a result of a critique</p> <ul style="list-style-type: none"> A. Post-Incident Report 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p>

		B. Action plan to address recommendations developed by the critique	<i>Hazardous Materials: Managing the Incident</i> Chapter 12
027	9.6.3.5	Implementing the procedure for conducting a critique A. Identified in local emergency response plan and standard operating procedures B. Review response activities C. Determine what worked well and what did not D. Analyze the data E. Document the analysis	<i>Hazardous Materials Response Handbook</i> Chapter 9 <i>Hazardous Materials: Managing the Incident</i> Chapter 12 Local Policies
028	9.6.3.6	Post incident analysis of a hazardous materials incident A. Local emergency response plan B. Standard operating procedures C. Federal, state, and local requirements	<i>Hazardous Materials Response Handbook</i> Chapter 9 <i>Hazardous Materials: Managing the Incident</i> Chapter 12 Local Policies
029	9.6.4.4	Incident reports and supporting documentation A. Local emergency response plan B. Standard operating procedures	<i>Hazardous Materials Response Handbook</i> Chapters 7 & 9 Local Policies
	9.6.4.1	Completing and compiling reports and documents A. Federal requirements B. State requirements C. Local requirements D. Organizational requirements	
	9.6.4.2	Importance of documentation A. Training records B. Debriefing records	

		<ul style="list-style-type: none"> C. Personnel exposure records D. Incident reports E. Critique reports 	
030	9.6.4.3	<p>Steps in keeping and the importance of activity log and exposure records</p> <ul style="list-style-type: none"> A. Activity log B. Exposure records <p>Compiling incident information</p> <ul style="list-style-type: none"> A. Hot zone entry and exit logs B. Personal protective equipment logs C. Local emergency response plan D. Standard operating procedures 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p>Local Policies</p>
031	9.6.4.5	<p>Filing documents and maintaining records</p> <ul style="list-style-type: none"> A. Local emergency response plan B. Standard operating procedures 	<p><i>Hazardous Materials Response Handbook</i> Chapter 9</p> <p>Local Policies</p>

Note: Now that you have completed this portion of your knowledge training, apply this knowledge using the Performance Test supplement and start preparing for your final performance evaluation.

Performance Objective: Using information typically available to the Branch Officer complete the following performance tasks as stated.

P.O # 8: Given a simulated hazardous materials incident, demonstrate the ability to terminate the emergency phase of the incident consistent with the LERP and organization's SOPs (9.6.1)

P.O #9: Given the details of a simulated hazardous materials incident, demonstrate the ability to conduct a debriefing of the incident for all units assigned to the hazardous materials branch (9.6.2)

P.O #10: Given the details of a simulated hazardous materials incident demonstrate the ability to conduct a critique of the incident for all units assigned to the hazardous materials branch. (9.6.3)

P.O #11: Given a simulated hazardous materials incident demonstrate the ability to report and document the incident consistent with the local, state, and federal requirements. (9.6.4)

Student Notes

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