



## Hazardous Materials Awareness and Operation Level Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

<b>Category: General Detecting the Presence of Hazardous Materials/ WMD</b>	<b>NFPA Standard 472: 4.2.1</b>
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Given examples of various situations, awareness level personnel shall identify those situations where hazardous materials/WMD are present by completing the following requirements.

Cognitive Skill	NFPA Reference
Define Hazardous Materials	4.2.1
Discuss UN/DOT hazard classes and divisions	4.2.1
Describe the primary hazards of UN/DOT hazard classes and divisions	4.2.1
Discuss the difference between Hazardous Materials incidents and other incidents	4.2.1
Identify the typical occupancies and locations for Hazardous Materials	4.2.1
Identify the typical containers for Hazardous Materials	4.2.1
Discuss the markings and colorings that indicate Hazardous Materials for, Transportation Markings, NFPA 704, Military, Special hazardous communication markings, Pipeline markings, and Container Marking	4.2.1
Identify NFPA 704 colors, numbers and special markings	4.2.1
Identify placards and labels	4.2.1
Discuss the MSDS and shipping paper information for the following:  a) Where to find b) Entries on an MSDS c) Entries on shipping papers d) Types of shipping papers e) Responsible persons for shipping papers f) Where to normally find shipping papers g) Where to find shipping papers in an emergency	4.2.1
Discuss the other clues that Hazardous Materials are present (using your senses)	4.2.1
Describe the limitations of using your senses	4.2.1
Discuss the locations that may become targets for criminals or terrorists	4.2.1
Describe the difference between chemical and biological incidents	4.2.1
Identify the indicators of possible criminal or terrorists activity using chemicals agents	4.2.1
Identify the indicators of possible criminal or terrorist's activity using biological agents.	4.2.1

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<b>Category: Surveying the Incident from a Safe Location</b>	<b>NFPA Standard 472: 4.2.2</b>
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Given examples of hazardous materials/WMD incidents, awareness level personnel shall, from a safe location, identify the hazardous material(s)/WMD involved in each situation by name, UN/NA identification number, or type placard applied by completing the following requirements.

Cognitive Skill	NFPA Reference
Identify the difficulties in determining specific names of Hazardous Materials in a facility or transportation incident.	4.2.2
Identify sources for obtaining UN/NA numbers, or placard information in a transportation incident.	4.2.2
Identify the sources for obtaining names of Hazardous Materials in a facility.	4.2.2

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<b>Category: Collecting Hazard Information and Initiating the Notification Process</b>	<b>NFPA Standard 472: 4.2.3, 4.4.2</b>
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Given the identity of various hazardous materials/WMD (name, UN/NA identification number, or type placard), awareness level personnel shall identify the fire, explosion, and health hazard information for each material by using the current edition of the DOT Emergency Response Guidebook by completing the following requirements.

Cognitive Skill	NFPA Reference
Identify the three methods for determining the guidebook page for a hazardous material/WMD	4.2.3
Identify the two general types of hazards found on each guidebook page.	4.2.3

Cognitive Skill	NFPA Reference
Given scenarios involving hazardous materials/WMD incidents, awareness level personnel shall identify the initial notifications to be made and how to make them, consistent with the AHJ.	4.4.2

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<b>Category: Surveying Hazardous Materials/WMD Incidents</b>	<b>NFPA Standard 5.2.1 through 5.2.1.6</b>
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Objective	Cognitive Skill
5.2.1	Given scenarios involving hazardous materials/WMD incidents, the operations level responder shall collect information about the incident to identify the containers, the materials involved, the surrounding conditions, and whether hazardous materials/ WMD have been released by completing the requirements of 5.2.1.1 through 5.2.1.6.
5.2.1.1	Given three examples each of liquid, gas, and solid hazardous material or WMD, including various hazard classes, operations level personnel shall identify the general shapes of containers in which the hazardous materials/WMD are typically found.
5.2.1.1.1	<p>Given examples of the following tank cars, the operations level responder shall identify each tank car by type, as follows:</p> <ul style="list-style-type: none"> <li>(1) Cryogenic liquid tank cars</li> <li>(2) Non-pressure tank cars (general service or low pressure cars)</li> <li>(3) Pressure tank cars</li> </ul>
5.2.1.1.2	<p>Given examples of the following intermodal tanks, the operations level responder shall identify each intermodal tank by type, as follows:</p> <ul style="list-style-type: none"> <li>(1) Non-pressure intermodal tanks</li> <li>(2) Pressure intermodal tanks</li> <li>(3) Specialized intermodal tanks, including the following:               <ul style="list-style-type: none"> <li>(a) Cryogenic intermodal tanks</li> <li>(b) Tube modules</li> </ul> </li> </ul>
5.2.1.1.3	<p>Given examples of the following cargo tanks, the operations level responder shall identify each cargo tank by type, as follows:</p> <ul style="list-style-type: none"> <li>(1) Compressed gas tube trailers</li> <li>(2) Corrosive liquid tanks</li> <li>(3) Cryogenic liquid tanks</li> <li>(4) Dry bulk cargo tanks</li> <li>(5) High pressure tanks</li> <li>(6) Low pressure chemical tanks</li> </ul>



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	(7) Non-pressure liquid tank
5.2.1.1.4	<p>Given examples of the following storage tanks, the operations level responder shall identify each tank by type, as follows:</p> <ul style="list-style-type: none"> <li>(1) Cryogenic liquid tank</li> <li>(2) Non-pressure tank</li> <li>(3) Pressure tank</li> </ul>
5.2.1.1.5	<p>Given examples of the following non-bulk packaging, the operations level responder shall identify each package by type, as follows:</p> <ul style="list-style-type: none"> <li>(1) Bags</li> <li>(2) Carboys</li> <li>(3) Cylinders</li> <li>(4) Drums</li> <li>(5) Dewar flask (cryogenic liquids)</li> </ul>
5.2.1.1.6	<p>Given examples of the following packaging, the operations level responder shall identify the characteristics of each container or package by type as follows:</p> <ul style="list-style-type: none"> <li>(1) Intermediate bulk container (IBC)</li> <li>(2) Ton container</li> </ul>
5.2.1.1.7	<p>Given examples of the following radioactive material packages, the operations level responder shall identify the characteristics of each container or package by type, as follows:</p> <ul style="list-style-type: none"> <li>(1) Excepted</li> <li>(2) Industrial</li> <li>(3) Type A</li> <li>(4) Type B</li> <li>(5) Type C</li> </ul>
5.2.1.2	<p>Given examples of containers, the operations level responder shall identify the markings that differentiate one container from another.</p>
5.2.1.2.1	<p>Given examples of the following marked transport vehicles and their corresponding shipping papers, the operations level responder shall identify the following vehicle or tank identification marking:</p> <ul style="list-style-type: none"> <li>(1) Highway transport vehicles, including cargo tanks</li> <li>(2) Intermodal equipment, including tank containers</li> <li>(3) Rail transport vehicles, including tank cars</li> </ul>
5.2.1.2.2	<p>Given examples of facility containers, the operations level responder shall identify the markings indicating container size, product contained, and/or site identification numbers.</p>



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5.2.1.1.3	<p>Given examples of the following cargo tanks, the operations level responder shall identify each cargo tank by type, as follows:</p> <ol style="list-style-type: none"><li>(1) Compressed gas tube trailers</li><li>(2) Corrosive liquid tanks</li><li>(3) Cryogenic liquid tanks</li><li>(4) Dry bulk cargo tanks</li><li>(5) High pressure tanks</li><li>(6) Low pressure chemical tanks</li><li>(7) Non-pressure liquid tanks</li></ol>
5.2.1.1.4	<p>Given examples of the following storage tanks, the operations level responder shall identify each tank by type, as follows:</p> <ol style="list-style-type: none"><li>(1) Cryogenic liquid tank</li><li>(2) Non-pressure tank</li><li>(3) Pressure tank</li></ol>
5.2.1.1.5	<p>Given examples of the following non-bulk packaging, the operations level responder shall identify each package by type, as follows:</p> <ol style="list-style-type: none"><li>(1) Bags</li><li>(2) Carboys</li><li>(3) Cylinders</li><li>(4) Drums</li><li>(5) Dewar flask (cryogenic liquids)</li></ol>
5.2.1.1.6	<p>Given examples of the following packaging, the operations level responder shall identify the characteristics of each container or package by type as follows:</p> <ol style="list-style-type: none"><li>(1) Intermediate bulk container (IBC)</li><li>(2) Ton container</li></ol>
5.2.1.1.7	<p>Given examples of the following radioactive material packages, the operations level responder shall identify the characteristics of each container or package by type, as follows:</p> <ol style="list-style-type: none"><li>(1) Excepted</li><li>(2) Industrial</li><li>(3) Type A</li><li>(4) Type B</li><li>(5) Type C</li></ol>
5.2.1.2	<p>Given examples of containers, the operations level responder shall identify the markings that differentiate one container from another.</p>



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5.2.1.2.1	<p>Given examples of the following marked transport vehicles and their corresponding shipping papers, the operations level responder shall identify the following vehicle or tank identification marking:</p> <p>(1) Highway transport vehicles, including cargo tanks            (2) Intermodal equipment, including tank containers            (3) Rail transport vehicles, including tank cars</p>		
5.2.1.2.2	<p>Given examples of facility containers, the operations level responder shall identify the markings indicating container size, product contained, and/or site identification numbers.</p>		
5.2.1.3	<p>Given examples of hazardous materials incidents, the operations level responder shall identify the name(s) of the hazardous material(s) in 5.2.1.3.1 through 5.2.1.3.3.</p>		
5.2.1.3.1	<p>The operations level responder shall identify the following information on a pipeline marker:</p> <p>(1) Emergency telephone number            (2) Owner            (3) Product</p>		
5.2.1.3.2	<p>Given a pesticide label, the operations level responder shall identify each of the following pieces of information, then match the piece of information to its significance in surveying hazardous materials incidents:</p> <p>(1) Active ingredient            (2) Hazard statement            (3) Name of pesticide            (4) Pest control product (PCP) number (in Canada)            (5) Precautionary statement            (6) Signal word</p>		
5.2.1.3.3	<p>Given a label for a radioactive material, the operations level responder shall identify the type or category of label, contents, activity, transport index, and criticality safety index as applicable.</p>		
5.2.1.4	<p>The operations level responder shall identify and list the surrounding conditions that should be noted when a hazardous materials/WMD incident is surveyed.</p>		
5.2.1.5	<p>The operations level responder shall describe ways to verify information obtained from the survey of a hazardous materials/WMD incident.</p>		
5.2.1.6	<p>The operations level responder shall identify at least three additional hazards that could be associated with an incident involving terrorist or criminal activities.</p>		
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<b>Category: Collecting Hazard and Response Information.</b>	<b>NFPA Standard 5.2.2</b>
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Objective	Cognitive Skill
5.2.2	<p>Given scenarios involving known hazardous materials/WMD, the operations level responder shall collect hazard and response in-formation using MSDS, CHEMTREC / CANUTEC / SETIQ, governmental authorities, and shippers and manufacturers by completing the following requirements:</p> <ol style="list-style-type: none"> <li>(1) Match the definitions associated with the UN/DOT hazard classes and divisions of hazardous materials/WMD, including refrigerated liquefied gases and cryogenic liquids, with the class or division.</li> <li>(2) Identify two ways to obtain an MSDS in an emergency</li> <li>(3) Using an MSDS for a specified material, identify the following hazard and response information:               <ol style="list-style-type: none"> <li>(a) Physical and chemical characteristics</li> <li>(b) Physical hazards of the material</li> <li>(c) Health hazards of the material</li> <li>(d) Signs and symptoms of exposure</li> <li>(e) Routes of entry</li> <li>(f) Permissible exposure limits</li> <li>(g) Responsible party contact</li> <li>(h) Precautions for safe handling (including hygiene practices, protective measures, and procedures for cleanup of spills and leaks)</li> <li>(i) Applicable control measures, including personal protective equipment</li> <li>(j) Emergency and first-aid procedures</li> </ol> </li> <li>(4) Identify the following:               <ol style="list-style-type: none"> <li>(a) Type of assistance provided by CHEMTREC/ CANUTEC/ SETIQ and governmental authorities</li> <li>(b) Procedure for contacting CHEMTREC/CANUTEC/ SETIQ and governmental authorities</li> <li>(c) Information to be furnished to CHEMTREC/CANUTEC/SETIQ and governmental authorities</li> </ol> </li> <li>(5) Identify two methods of contacting the manufacturer or shipper to obtain hazard and response information</li> </ol>



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	<p>(6) Identify the type of assistance provided by governmental authorities with respect to criminal or terrorist activities involving the release or potential release of hazardous materials/WMD.</p> <p>(7) Identify the procedure for contacting local, state, and federal authorities as specified in the emergency response plan and/or standard operating procedures</p> <p>(8) Describe the properties and characteristics of the following:</p> <ul style="list-style-type: none"><li>(a) Alpha radiation</li><li>(b) Beta radiation</li><li>(c) Gamma radiation</li><li>(d) Neutron radiation</li></ul>
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# Hazardous Materials Awareness and Operation Level Course Objectives

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<b>Category: Predicting the Likely Behavior of a Material and Its Container</b>	<b>NFPA Standard 5.2.3</b>
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Objective	Cognitive Skill
5.2.3	<p>Given scenarios involving hazardous materials/ WMD incidents, each with a single hazardous material/WMD, the operations level responder shall describe the likely behavior of the material or agent and its container by completing the following requirements:</p> <p>(1) Use the hazard and response information obtained from the current edition of the DOT Emergency Response Guidebook, MSDS, CHEMTREC/CANUTEC/SETIQ, governmental authorities, and shipper and manufacturer contacts, as follows:</p> <p style="margin-left: 40px;">(a) Match the following chemical and physical properties with their significance and impact on the behavior of the container and its contents:</p> <ul style="list-style-type: none"> <li>i. Boiling point</li> <li>ii. Chemical reactivity</li> <li>iii. Corrosivity (pH)</li> <li>iv. Flammable (explosive) range [lower explosive limit (LEL) and upper explosive limit (UEL)]</li> <li>v. Flash point</li> <li>vi. Ignition (autoignition) temperature</li> <li>vii. Particle size</li> <li>viii. Persistence</li> <li>ix. Physical state (solid, liquid, gas)</li> <li>x. Radiation (ionizing and non-ionizing)</li> <li>xi. Specific gravity</li> <li>xii. Toxic products of combustion</li> <li>xiii. Vapor density</li> <li>xiv. Vapor pressure</li> <li>xv. Water solubility</li> </ul> <p style="margin-left: 40px;">(b) Identify the differences between the following terms:</p> <ul style="list-style-type: none"> <li>i. Contamination and secondary contamination</li> <li>ii. Exposure and contamination</li> <li>iii. Exposure and hazard</li> <li>iv. Infectious and contagious</li> <li>v. Acute effects and chronic effects</li> <li>vi. Acute exposures and chronic exposures</li> </ul> <p>(2) Identify three types of stress that can cause a container system to release its contents</p>



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	<p>(3) Identify five ways in which containers can breach</p> <p>(4) Identify four ways in which containers can release their Contents</p> <p>(5) Identify at least four dispersion patterns that can be created upon release of a hazardous material.</p> <p>(6) Identify the time frames for estimating the duration that hazardous materials/WMD will present an exposure risk.</p> <p>(7) Identify the health and physical hazards that could cause harm.</p> <p>(8) Identify the health hazards associated with the following terms:</p> <ul style="list-style-type: none"> <li>(a) Alpha, beta, gamma, and neutron radiation</li> <li>(b) Asphyxiant</li> <li>(c) Carcinogen</li> <li>(d) Convulsant</li> <li>(e) Corrosive</li> <li>(f) Highly toxic</li> <li>(g) Irritant</li> <li>(h) Sensitizer, allergen</li> <li>(i) Target organ effects</li> <li>(j) Toxic</li> </ul> <p>(9) Given the following, identify the corresponding UN/DOT hazard class and division:</p> <ul style="list-style-type: none"> <li>(a) Blood agents</li> <li>(b) Biological agents and biological toxins</li> <li>(c) Choking agents</li> <li>(d) Irritants (riot control agents)</li> <li>(e) Nerve agents</li> <li>(f) Radiological materials</li> <li>(g) Vesicants (blister agents)</li> </ul>
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<b>Category: Estimating Potential Harm</b>	<b>NFPA Standard 5.2.4</b>
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Objective	Cognitive Skill
5.2.4	<p>Given scenarios involving hazardous materials/WMD incidents, the operations level responder shall describe the potential harm within the endangered area at each incident by completing the following requirements:</p> <ol style="list-style-type: none"> <li>(1) Identify a resource for determining the size of an endangered area of a hazardous materials/WMD incident</li> <li>(2) Given the dimensions of the endangered area and the surrounding conditions at a hazardous materials/WMD incident, describe the number and type of exposures within that endangered area</li> <li>(3) Identify resources available for determining the concentrations of a released hazardous materials/WMD within an endangered area.</li> <li>(4) Given the concentrations of the released material, describe the factors for determining the extent of physical, health, and safety hazards within the endangered area of a hazardous materials/WMD incident</li> <li>(5) Describe the impact that time, distance, and shielding have on exposure to radioactive materials specific to the expected dose rate</li> </ol>

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<b>Category: Describing Response Objectives</b>	<b>NFPA Standard 5.3.1</b>
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Objective	Cognitive Skill
5.3.1	<p>Given at least two scenarios involving hazardous materials/WMD incidents, the operations level responder shall describe the response objectives for each example by completing the following requirements:</p> <ol style="list-style-type: none"> <li>(1) Given an analysis of a hazardous materials/WMD incident and the exposures, describe the number of exposures that could be saved with the resources provided by the AHJ</li> <li>(2) Given an analysis of a hazardous materials/WMD incident, describe the steps for determining response objectives</li> <li>(3) Describe how to assess the risk to a responder for each hazard class in rescuing injured persons at a hazardous materials/WMD incident</li> <li>(4) Describe the potential for secondary attacks and devices at criminal or terrorist events</li> </ol>

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## Hazardous Materials Awareness and Operation Level Course Objectives

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<b>Category: Identifying Action Options</b>	<b>NFPA Standard 5.3.2</b>
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Objective	Cognitive Skill
5.3.2	<p>Given examples of hazardous materials/WMD incidents (facility and transportation), the operations level responder shall identify the options for each response objective and shall meet the following requirements:</p> <ul style="list-style-type: none"> <li>(1) Identify the options to accomplish a given response objective</li> <li>(2) Describe the prioritization of emergency medical care and removal of victims from the hazard area relative to exposure and contamination concerns</li> </ul>

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## Hazardous Materials Awareness and Operation Level Course Objectives

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<b>Category: Determining Suitability of Personal Protective Equipment</b>	<b>NFPA Standard 5.3.3</b>
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Objective	Cognitive Skill
5.3.3	<p>Given examples of hazardous materials/WMD incidents, including the names of the hazardous materials/WMD involved and the anticipated type of exposure, the operations level responder shall determine whether available personal protective equipment is applicable to performing assigned tasks by completing the following requirements:</p> <p>(1) Identify the respiratory protection required for a given response option and the following:</p> <p style="margin-left: 20px;">(a) Describe the advantages, limitations, uses, and operational components of the following types of respiratory protection at hazardous materials/WMD incidents:</p> <p style="margin-left: 40px;">i. Positive pressure self-contained breathing apparatus (SCBA)            ii. Positive pressure air-line respirator with required escape unit            iii. Closed-circuit SCBA            iv. Powered air-purifying respirator (PAPR)            v. Air-purifying respirator (APR)            vi. Particulate respirator</p> <p style="margin-left: 20px;">(b) Identify the required physical capabilities and limitations of personnel working in respiratory protection</p> <p>(2) Identify the personal protective clothing required for a given option and the following:</p> <p style="margin-left: 20px;">(a) Identify skin contact hazards encountered at hazardous materials/WMD incidents</p> <p style="margin-left: 20px;">(b) Identify the purpose, advantages, and limitations of the following types of protective clothing at hazardous materials/WMD incidents:</p> <p style="margin-left: 40px;">i. Chemical-protective clothing such as liquid splash-protective clothing and vapor-protective clothing</p> <p style="margin-left: 40px;">ii. High temperature-protective clothing such as proximity suit and entry suits</p> <p style="margin-left: 40px;">iii. Structural fire-fighting protective clothing</p>

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## Hazardous Materials Awareness and Operation Level Course Objectives

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<b>Category: Identifying Decontamination Issues</b>	<b>NFPA Standard 5.3.4</b>
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Objective	Cognitive Skill
5.3.4	<p>Given scenarios involving hazardous materials/WMD incidents, the operations level responder shall identify when decontamination is needed by completing the following requirements:</p> <ol style="list-style-type: none"> <li>(1) Identify ways that people, personal protective equipment, apparatus, tools, and equipment become contaminated</li> <li>(2) Describe how the potential for secondary contamination determines the need for decontamination</li> <li>(3) Explain the importance and limitations of decontamination procedures at hazardous materials incidents</li> <li>(4) Identify the purpose of emergency decontamination procedures at hazardous materials incidents</li> <li>(5) Identify the methods, advantages, and limitations of emergency decontamination procedures</li> </ol>

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## Hazardous Materials Awareness and Operation Level Course Objectives

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<b>Category Establishing Scene Control</b>	<b>NFPA Standard 5.4.1</b>
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Objective	Cognitive Skill
5.4.1	<p>Given two scenarios involving hazardous materials/WMD incidents, the operations level responder shall explain how to establish and maintain scene control, including control zones and emergency decontamination, and communications between responders and to the public by completing the following requirements:</p> <ol style="list-style-type: none"> <li>(1) Identify the procedures for establishing scene control through control zones</li> <li>(2) Identify the criteria for determining the locations of the control zones at hazardous materials/WMD incidents</li> <li>(3) Identify the basic techniques for the following protective actions at hazardous materials/WMD incidents:               <ol style="list-style-type: none"> <li>(a) Evacuation</li> <li>(b) Shelter-in-place</li> </ol> </li> <li>(4) Demonstrate the ability to perform emergency decontamination</li> <li>(5) Identify the items to be considered in a safety briefing prior to allowing personnel to work at the following:               <ol style="list-style-type: none"> <li>(a) Hazardous material incidents</li> <li>(b) Hazardous materials/WMD incidents involving criminal activities</li> </ol> </li> <li>(6) Identify the procedures for ensuring coordinated communication between responders and to the public</li> </ol>

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<b>Category Establishing Scene Control</b>	<b>NFPA Standard 5.4.2</b>
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Objective	Cognitive Skill
5.4.2	Given two scenarios involving hazardous materials/WMD incidents, the operations level responder shall describe the process to preserve evidence as listed in the emergency response plan and/or standard operating procedures.

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## Hazardous Materials Awareness and Operation Level Course Objectives

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<b>Category: Initiating the Incident Command System</b>	<b>NFPA Standard 5.4.3</b>
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Objective	Cognitive Skill
5.4.3	<p>Given scenarios involving hazardous materials/WMD incidents, the operations level responder shall implement the incident command system as required by the AHJ by completing the following requirements:</p> <ol style="list-style-type: none"> <li>(1) Identify the role of the operations level responder during hazardous materials/WMD incidents as specified in the emergency response plan and/or standard operating procedures</li> <li>(2) Identify the levels of hazardous materials/WMD incidents as defined in the emergency response plan</li> <li>(3) Identify the purpose, need, benefits, and elements of the incident command system for hazardous materials/WMD incidents</li> <li>(4) Identify the duties and responsibilities of the following functions within the incident management system:               <ol style="list-style-type: none"> <li>(a) Incident safety officer</li> <li>(b) Hazardous materials branch or group</li> </ol> </li> <li>(5) Identify the considerations for determining the location of the incident command post for a hazardous materials/WMD incident</li> <li>(6) Identify the procedures for requesting additional resources at a hazardous materials/WMD incident</li> <li>(7) Describe the role and response objectives of other agencies that respond to hazardous materials/WMD incidents</li> </ol>

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## Hazardous Materials Awareness and Operation Level Course Objectives

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<b>Category: Using Personal Protective Equipment</b>	<b>NFPA Standard 5.4.4</b>
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Objective	Cognitive Skill
5.4.4	<p>Given the personal protective equipment provided by the AHJ, the operations level responder shall describe considerations for the use of personal protective equipment provided by the AHJ by completing the following requirements:</p> <ol style="list-style-type: none"> <li>(1) Identify the importance of the buddy system</li> <li>(2) Identify the importance of the backup personnel</li> <li>(3) Identify the safety precautions to be observed when approaching and working at hazardous materials/WMD incidents</li> <li>(4) Identify the signs and symptoms of heat and cold stress and procedures for their control</li> <li>(5) Identify the capabilities and limitations of personnel working in the personal protective equipment provided by the AHJ</li> <li>(6) Identify the procedures for cleaning, disinfecting, and inspecting personal protective equipment provided by the AHJ</li> <li>(7) Describe the maintenance, testing, inspection, and storage procedures for personal protective equipment provided by the AHJ according to the manufacturer's specifications and recommendations</li> </ol>

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Instructor's Name	Certification #	Completion Date



## Hazardous Materials Awareness and Operation Level Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

<b>Category: Evaluating the Status of Planned Response</b>	<b>NFPA Standard 5.5.1</b>
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Objective	Cognitive Skill
5.5.1	<p>Given two scenarios involving hazardous materials/WMD incidents, including the incident action plan, the operations level responder shall determine the effectiveness of the actions taken in accomplishing the response objectives and shall meet the following requirements:</p> <ul style="list-style-type: none"> <li>(1) Identify the considerations for evaluating whether actions taken were effective in accomplishing the objectives</li> <li>(2) Describe the circumstances under which it would be prudent to withdraw from a hazardous materials/WMD Incident</li> </ul>

Student's Name		Completion Date
Instructor's Name	Certification #	Completion Date



## Hazardous Materials Awareness and Operation Level Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

<b>Category: Communicating the Status of Planned Response</b>	<b>NFPA Standard 5.5.2</b>
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Objective	Cognitive Skill
5.5.2	<p>Given two scenarios involving hazardous materials/WMD incidents, including the incident action plan, the operations level responder shall report the status of the planned response through the normal chain of command by completing the following requirements:</p> <ul style="list-style-type: none"> <li>(1) Identify the procedures for reporting the status of the planned response through the normal chain of command</li> <li>(2) Identify the methods for immediate notification of the incident commander and other response personnel about critical emergency conditions at the incident.</li> </ul>

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## Hazardous Materials Awareness and Operation Level Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

<b>Category: Identifying Control Options</b>	<b>NFPA Standard 6.6.3.1</b>
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Objective	Cognitive Skill
6.6.3.1	<p>Given examples of hazardous materials/WMD incidents, the operations level responder assigned to perform product control shall identify the options for each response objective by completing the following requirements as prescribed by the AHJ:</p> <ul style="list-style-type: none"> <li>(1) Identify the options to accomplish a given response objective</li> <li>(2) Identify the purpose for and the procedures, equipment ,and safety precautions associated with each of the following control techniques:               <ul style="list-style-type: none"> <li>(a) Absorption</li> <li>(b) Adsorption</li> <li>(c) Damming</li> <li>(d) Diking</li> <li>(e) Dilution</li> <li>(f) Diversion</li> <li>(g) Remote valve shutoff</li> <li>(h) Retention</li> <li>(i) Vapor dispersion</li> <li>(j) Vapor suppression</li> </ul> </li> </ul>

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Instructor's Name	Certification #	Completion Date



## Hazardous Materials Awareness and Operation Level Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

<b>Category : Selecting Personal Protective Equipment</b>	<b>NFPA Standard 6.6.3.2</b>
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Objective	Cognitive Skill
6.6.3.2	Given the personal protective equipment provided by the AHJ, the operations level responder assigned to perform product control shall select the personal protective equipment required to support product control at hazardous materials/WMD incidents based on local procedures (see Section 6.2).

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## Hazardous Materials Awareness and Operation Level Course Objectives

CANDIDATE NAME (Please Print)	
CHARTER	CHARTER #

<b>Category : Performing Control Options</b>	<b>NFPA Standard 6.6.4.1</b>
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Objective	Cognitive Skill
6.6.4.1	<p>Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan by completing the following requirements as prescribed by the AHJ:</p> <ol style="list-style-type: none"> <li>(1) Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD</li> <li>(2) Identify the characteristics and applicability of the following Class B foams if supplied by the AHJ:               <ol style="list-style-type: none"> <li>(a) Aqueous film-forming foam (AFFF)</li> <li>(b) Alcohol-resistant concentrates</li> <li>(c) Fluoroprotein</li> <li>(d) High-expansion foam</li> </ol> </li> <li>(3) Given the required tools and equipment, demonstrate how to perform the following control activities:               <ol style="list-style-type: none"> <li>(a) Absorption</li> <li>(b) Adsorption</li> <li>(c) Damming</li> <li>(d) Diking</li> <li>(e) Dilution</li> <li>(f) Diversion</li> <li>(g) Retention</li> <li>(h) Remote valve shutoff</li> </ol> </li> </ol>



## Hazardous Materials Awareness and Operation Level Course Objectives

	<p>(i) Vapor dispersion</p> <p>(j) Vapor suppression</p> <p>(4) Identify the location and describe the use of emergency remote shutoff devices on MC/DOT-306/406, MC/DOT-307/407, and MC-331 cargo tanks containing flammable liquids or gases</p> <p>(5) Describe the use of emergency remote shutoff devices at fixed facilities.</p>
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Student's Name		Completion Date
Instructor's Name	Certification #	Completion Date



## Hazardous Materials Awareness and Operation Level Course Objectives

CANDIDATE NAME (Please Print)	
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<b>Category : Performing Control Options</b>	<b>NFPA Standard 6.6.4.1</b>
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Objective	Cognitive Skill
6.6.4.1	The operations level responder assigned to perform product control shall describe local procedures for going through the technical decontamination process.

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