

"Operations Level Responder to the Hazardous Materials Incident"

Competency Assessment



North Central Florida Regional Hazardous Materials Response Team 2005 Edition

Prepared By:
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Special Operations
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Introduction

This document has been developed to provide for regularly scheduled competency maintenance of the minimum knowledge, skills and abilities required for Operations level response personnel providing emergency response to the hazardous materials incident as outlined in NFPA 472. In addition, this document will outline the minimum competencies required to function as a hazardous materials first responder, as recognized within the North Central Florida Local Emergency Planning Council (LEPC) Region III Regional Hazardous Materials Response Team.

The psychomotor skills found in NFPA 472 have been brought together to comprise this document.

This document is recommended for the initial training of the “Operations Level Responder” to hazardous materials incidents as well as for the documentation of periodic competency assessment(s). In accordance with OSHA 29 CFR 1910.120 (q), annual refresher training shall take place in sufficient content and duration for employees to maintain their competency, or demonstrate their competency at least yearly. In addition, the employer is responsible for designating appropriate recertification procedures and identifying those “qualified” to sign this document indicating successful completion of a competency.

Prepared For:

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Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.2

Analyzing the Hazardous Materials Incident

No.	Requirement
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	<p>The Operations Level responder shall meet the competencies identified at the First Responder level for this section <i>(found in the LEPC First Responder Competencies document)</i>.</p>
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(Signature)

____/____/____
(Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.2.1

Surveying the Hazardous Materials Incident

No. Requirement

5.2.1 Given examples of both facility and transportation scenarios involving hazardous materials, the first responder at the operational level shall survey the incident to identify the containers and materials involved, determine whether hazardous materials have been released, and evaluate the surrounding conditions.

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5.2.1.1 Given three examples each of liquid, gas, and solid hazardous materials, the first responder at the operational level shall identify the general shapes of containers in which the hazardous materials are typically found.

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(Date)

5.2.1.1 (A) Given examples of the following tank cars, the responder at the operational level shall identify each tank car by type as follows:

- a) Cryogenic liquid tank cars
- b) High-pressure tube cars
- c) Nonpressure tank cars
- d) Pneumatically unloaded hopper cars
- e) Pressure tank cars

(Signature)

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(Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

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Area 5.2.1

Surveying the Hazardous Materials Incident

No. Requirement

5.2.1.1 (B) Given examples of the following intermodal tanks, the responder at the operational level shall identify each intermodal tank by type and identify at least one material and its hazard class that is typically found in each tank as follows:

- 1) Nonpressure intermodal tanks, such as the following:
 - a) IM-101 (IMO Type 1 internationally) portable tank
 - b) IM-102 (IMO Type 2 internationally) portable tank
- 2) Pressure intermodal tanks
- 3) Specialized intermodal tanks, such as the following:
 - c) Cryogenic intermodal tanks
 - d) Tube modules

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(Date)

(C) Given examples of the following cargo tanks, the responder at the operational level shall identify each cargo tank by type as follows:

- 1) Nonpressure liquid tanks
- 2) Low pressure chemical tanks
- 3) Corrosive liquid tanks
- 4) High pressure tanks
- 5) Cryogenic liquid tanks
- 6) Dry bulk cargo tanks
- 7) Compressed gas tube trailers

(Signature)

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(Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.2.1

Surveying the Hazardous Materials Incident

No. Requirement

5.2.1.1 (D) Given examples of the following tanks, the responder at the operational level shall identify at least one material, and its hazard, that is typically found in each tank as follows:

- 1) Nonpressure tank
- 2) Pressure tank
- 3) Cryogenic liquid tank

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(Date)

(E) Given examples of the following nonbulk packages, the responder at the operational level shall identify each package type as follows:

- 1) Bags
- 2) Carboys
- 3) Cylinders
- 4) Drums

(Signature)

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(Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

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Area 5.2.1

Surveying the Hazardous Materials Incident

No.	Requirement
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5.2.1.1 (F)	Given examples of the following radioactive containers, the responder at the operational level shall identify each container/package by type as follows:
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- | | |
|-------------|--|
| 5.2.1.1 (F) | Given examples of the following radioactive containers, the responder at the operational level shall identify each container/package by type as follows: |
| | 1) Type A |
| | 2) Type B |
| | 3) Industrial |
| | 4) Excepted |
| | 5) Strong, tight containers |

(Signature)

____/____/____
(Date)

5.2.1.2	Given examples of facility and transportation containers, the responder at the operational level shall identify the conditions that differentiate one container from another.
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Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.2.1

Surveying the Hazardous Materials Incident

No. Requirement

5.2.1.2 Given examples of facility and transportation containers, the responder at the operational level shall identify the markings that differentiate one container from another.

(B) Given examples of facility containers, the responder at the operational level shall identify the markings indicating container size, product contained, and/or site identification numbers

(Signature)

____/____/____
(Date)

5.2.1.3 Given examples of facility and transportation situations involving hazardous materials, the responder at the operational level shall identify the name(s) of the hazardous material(s) in each situation.

(A) The responder at the operational level shall identify the following information on a pipeline marker:

- 1) Product
- 2) Owner
- 3) Emergency telephone number

(Signature)

____/____/____
(Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

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Area 5.2.1

Surveying the Hazardous Materials Incident

No.	Requirement
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5.2.1.2 (B)	Given a pesticide label, the responder at the operational level shall identify each of the following pieces of information, then match the piece of information to its significance in surveying the hazardous materials incident::
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- 1) Name of pesticide
- 2) Signal word
- 3) Pest control product (PCP) number (in Canada)
- 4) Precautionary statement
- 5) Hazard statement
- 6) Active ingredient

(Signature)

____/____/____
(Date)

(C) Given a label, for radioactive material, the responder at operational level shall identify vertical bars, contents, activity, and transport index.

(Signature)

____/____/____
(Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

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Area 5.2.1

Surveying the Hazardous Materials Incident

No.	Requirement
5.2.1.4	<p>The responder at the operational level shall identify and list the conditions that should be noted by the first responders when surveying hazardous materials incidents.</p> <div style="text-align: right; margin-top: 20px;"> <div style="display: inline-block; width: 200px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="display: inline-block; width: 100px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> </div> <div style="text-align: right;"> <div style="display: inline-block; width: 200px;">(Signature)</div> <div style="display: inline-block; width: 100px;">____/____/____ (Date)</div> </div>
5.2.1.5	<p>The responder at the operational level shall give examples of ways to verify information obtained from the survey of a hazardous materials incident.</p> <div style="text-align: right; margin-top: 20px;"> <div style="display: inline-block; width: 200px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="display: inline-block; width: 100px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> </div> <div style="text-align: right;"> <div style="display: inline-block; width: 200px;">(Signature)</div> <div style="display: inline-block; width: 100px;">____/____/____ (Date)</div> </div>
5.2.1.6	<p>The responder at the operational level shall identify at least three additional hazards that could be associated with an incident involving criminal or terrorist activity.</p> <div style="text-align: right; margin-top: 20px;"> <div style="display: inline-block; width: 200px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="display: inline-block; width: 100px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> </div> <div style="text-align: right;"> <div style="display: inline-block; width: 200px;">(Signature)</div> <div style="display: inline-block; width: 100px;">____/____/____ (Date)</div> </div>

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.2.2

Collecting Hazard and Response Information

No.	Requirement
5.2.1	Given known hazardous materials, the responder at the operational level shall collect hazard and response information using MSDS, CHEMTREC/CANUTEC/SETIQ, local, state, and federal authorities; and contacts with the shipper/manufacturer and also meet the following requirements:
5.2.2	<div> <div>(1) Match the definitions associated with the UN/DOT hazard classes and divisions of hazardous materials, including refrigerated liquefied gasses and cryogenic liquids, with the class or division</div> <div style="text-align: right; margin-top: 10px;"> <div style="display: inline-block; width: 200px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="display: inline-block; width: 100px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 5px;"> <div style="text-align: center; width: 200px;">(Signature)</div> <div style="text-align: center; width: 100px;">(Date)</div> </div> </div> <div style="margin-top: 20px;"> <div>(2) Identify two ways to obtain an MSDS in an emergency</div> <div style="text-align: right; margin-top: 10px;"> <div style="display: inline-block; width: 200px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="display: inline-block; width: 100px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 5px;"> <div style="text-align: center; width: 200px;">(Signature)</div> <div style="text-align: center; width: 100px;">(Date)</div> </div> </div>

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.2.2

Collecting Hazard and Response Information

No.	Requirement
(3)	<p>Using an MSDS for a specified material, identify the following hazard and response information:</p> <ul style="list-style-type: none"> (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 (including hygiene practices, protective measures, procedures for cleanup of spills or leaks) (i) Applicable control measures including personal protective equipment (j) Emergency first aid procedures <div style="text-align: right; margin-top: 20px;"> <div style="display: inline-block; width: 200px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="display: inline-block; width: 100px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 5px;"> <div style="text-align: center; width: 200px;">(Signature)</div> <div style="text-align: center; width: 100px;">(Date)</div> </div>
Examiners Remarks	

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.2.2

Collecting Hazard and Response Information

No.	Requirement
<p>(4) Identify the following:</p> <ul style="list-style-type: none"> a) Type of assistance provided by CHEMTREC/CANUTEC/SETIQ and local, state, and federal authorities b) Procedure for contacting CHEMTREC/CANUTEC/SETIQ and local, state, and federal authorities c) Information to be furnished to CHEMTREC/CANUTEC/SETIQ and local, state, and federal authorities <div style="text-align: right; margin-top: 20px;"> <div style="display: flex; justify-content: space-between; width: 100%;"> <div style="border-bottom: 1px solid black; width: 60%;"></div> <div style="border-bottom: 1px solid black; width: 20%; text-align: center;">____/____/____</div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>(Signature)</div> <div>(Date)</div> </div> </div>	

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

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Area 5.2.2

Collecting Hazard and Response Information

No.	Requirement
(7)	Identify the procedure for contacting local, state, and federal authorities as specified in the local emergency response plan (ERP) or the organization's standard operating procedures <div style="text-align: right;">_____ (Signature) ____/____/____ (Date)</div>
(8)	Describe the properties and characteristics of the following: a) Alpha particles b) Beta particles c) Gamma rays d) Neutrons <div style="text-align: right;">_____ (Signature) ____/____/____ (Date)</div>

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

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Area 5.2.3

Predicting the Behavior of a Material and its Contents

No. Requirement

Given an incident involving a single hazardous material, the first responder at the operational level shall predict the likely behavior of the material and its container and also meet the following requirements:

- 1) Given two examples of scenarios involving known hazardous materials, interpret the hazard and response information obtained from the current edition of the Emergency Response Guidebook; MSDS; CHEMTREC/CANUTEC/SETIQ; local, state, and federal authorities; and shipper/manufacturer contacts as follows:
 - a) Match the following chemical and physical properties with their significance and impact on the behavior of the container and its contents:

i. Boiling Point	ii. Chemical Reactivity
iii. Corrosivity (pH)	iv. Flammable (explosive) range (LEL/UEL)
v. Flash Point	vi. Ignition (autoignition) temperature
vii. Product state (solid, liquid, gas)	viii. Specific Gravity
ix. Toxic products of combustion	x. Vapor density
xi. Vapor pressure	xii. Water solubility
xiii. Radiation (ionizing and non-ionizing)	

(Signature)

____/____/____
(Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

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Area 5.2.3 Predicting the Behavior of a Material and its Contents	
No.	Requirement
5.2.3 (b)	Identify the differences between the following pairs of terms: <div style="margin-left: 40px;"> i. Exposure and Hazard ii. Exposure and contamination ii. Contamination and secondary contamination iii. Radioactive material exposure (internal and external) and radioactive contamination </div> <div style="text-align: right; margin-top: 20px;"> _____ (Signature) ____/____/____ (Date) </div>
(2)	Identify three type of stress that could cause a container system to loose its contents <div style="text-align: right; margin-top: 20px;"> _____ (Signature) ____/____/____ (Date) </div>
(3)	Identify five ways in which containers can breach <div style="text-align: right; margin-top: 20px;"> _____ (Signature) ____/____/____ (Date) </div>
(4)	Identify four ways in which containers can release their contents <div style="text-align: right; margin-top: 20px;"> _____ (Signature) ____/____/____ (Date) </div>
Examiners Remarks	

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

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Area 5.2.3

Predicting the Behavior of a Material and its Contents

No.	Requirement
	<p>(5) Identify at least four dispersion patterns that can be created upon release of hazardous material.</p> <div style="text-align: right; margin-right: 50px;"> _____ (Signature) </div> <div style="text-align: right;"> ____/____/____ (Date) </div>
	<p>(6) Identify three general time frames for predicting the length of time that exposures can be in contact with hazardous materials in an endangered area.</p> <div style="text-align: right; margin-right: 50px;"> _____ (Signature) </div> <div style="text-align: right;"> ____/____/____ (Date) </div>
	<p>(7) Identify the health and physical hazards that could cause harm.</p> <div style="text-align: right; margin-right: 50px;"> _____ (Signature) </div> <div style="text-align: right;"> ____/____/____ (Date) </div>
<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> <h4 style="text-align: center;">Examiners Remarks</h4> </div>	

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

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Area 5.2.3 Predicting the Behavior of a Material and its Contents	
No.	Requirement
(8)	<p>Identify the health hazards associated with the following terms:</p> <ul style="list-style-type: none"> a) Asphyxiant b) Chronic health hazard c) Convulsant d) Irritant/Corrosive e) Sensitizer/Allergen f) Alpha, Beta, Gamma, and Neutron Radiation <div style="text-align: right; margin-top: 20px;"> <div style="display: inline-block; width: 200px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="display: inline-block; width: 100px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 5px;"> <div style="text-align: center; margin-right: 20px;">(Signature)</div> <div style="text-align: center;">(Date)</div> </div>
(9)	<p>Given the following types of warfare agents, identify the corresponding UN/DOT hazard class and division.</p> <ul style="list-style-type: none"> a) Nerve agents b) Vesicants (blister agents) c) Blood agents d) Choking agents e) Irritants (riot control agents) f) Biological agents and toxins <div style="text-align: right; margin-top: 20px;"> <div style="display: inline-block; width: 200px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="display: inline-block; width: 100px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 5px;"> <div style="text-align: center; margin-right: 20px;">(Signature)</div> <div style="text-align: center;">(Date)</div> </div>
Examiners Remarks	

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.2.4 Estimating the Potential Harm

No.	Requirement
<p>The first responder at the operational level shall estimate the potential harm within the endangered area of a hazardous materials incident and also meet the following requirements.</p> <p>(1) Identify a resource for determining the size of an endangered area of a hazardous materials incident.</p> <div style="text-align: right; margin-right: 100px;"> _____ (Signature) </div> <div style="text-align: right; margin-right: 100px;"> ____/____/____ (Date) </div> <p>(2) Given the dimensions of the endangered area and the surrounding conditions at a hazardous materials incident, estimate the number and type exposures within that endangered area.</p> <div style="text-align: right; margin-right: 100px;"> _____ (Signature) </div> <div style="text-align: right; margin-right: 100px;"> ____/____/____ (Date) </div> <p>(3) Identify resources available for determining the concentrations of a released hazardous material within an endangered area.</p> <div style="text-align: right; margin-right: 100px;"> _____ (Signature) </div> <div style="text-align: right; margin-right: 100px;"> ____/____/____ (Date) </div>	
<h3>Examiners Remarks</h3>	

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.2.4

Estimating the Potential Harm

No.	Requirement
(4)	Given the concentrations of a released material, identify the factors for determining the extent of physical, health, and safety hazards within the endangered area of a hazardous materials incident. <div style="text-align: right;">_____ (Signature) ____/____/____ (Date)</div>
(5)	Describe the impact that time, distance, and shielding have on exposure to radioactive materials specific to the expected dose rate. <div style="text-align: right;">_____ (Signature) ____/____/____ (Date)</div>
(6)	Describe the prioritization of emergency medical care and removal of victims from the hazard area relative to exposure and contamination concerns. <div style="text-align: right;">_____ (Signature) ____/____/____ (Date)</div>
Examiners Remarks	

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

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Area 5.3.1 Planning the Response

No.	Requirement
5.3.1	<p>Given at least two scenarios involving hazardous materials incidents (one facility and one transportation), the first responder at the operational level shall describe the first responder's objectives for each problem and also meet the following requirements.</p> <p>(1) Given an analysis of a hazardous materials problem and the exposures already lost, identify the steps for determining the number of exposures that could be saved by the first responder with resources provided by the authority having jurisdiction and operating in a defensive fashion.</p> <div style="text-align: right; margin-right: 100px;"> _____ (Signature) </div> <div style="text-align: right; margin-right: 100px;"> ____/____/____ (Date) </div> <p>(2) Given an analysis of a hazardous materials incident, describe the steps for determining defensive response objectives</p> <div style="text-align: right; margin-right: 100px;"> _____ (Signature) </div> <div style="text-align: right; margin-right: 100px;"> ____/____/____ (Date) </div> <p>(3) Describe how to assess the risk to a responder for each hazard class in rescuing injured persons at a hazardous materials incident.</p> <div style="text-align: right; margin-right: 100px;"> _____ (Signature) </div> <div style="text-align: right; margin-right: 100px;"> ____/____/____ (Date) </div>
Examiners Remarks	

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.3.1 Planning the Response

No. Requirement

5.3.2 Given simulated facility and transportation hazardous materials problems, the first responder at the operational level shall identify the defensive options for each response objective and meet the following requirements:

- (1) Identify the defensive options to accomplish a given response objective.

(Signature) ____/____/____
(Date)

- (2) Identify the purpose for, and the procedures, equipment, and safety precautions used with, each of the following control techniques:

- a) Absorption
- b) Dike,dam,diversion,retention
- c) Dilution
- d) Remote valve shutoff
- e) Vapor dispersion
- f) Vapor suppression

(Signature) ____/____/____
(Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.3.1 Planning the Response

No. Requirement

5.3.3 Given the name of the hazardous material involved and the anticipated type of exposure, the first responder operational level shall determine whether available personal protective equipment is appropriate for implementing a defensive option and also meet the following requirements.

- (1) Identify the respiratory protection required for a given defensive option and the following:
- a) Identify three types of respiratory protection and the advantages and limitations presented by the use of each at hazardous material incidents.
 - b) Identify the required physical capabilities and limitations of personnel working in positive pressure self-contained breathing apparatus.

_____/_____/_____
(Signature) (Date)

- (2) Identify the personal protective clothing required for a given defense option and the following:
- a) Identify skin contact hazards encountered at hazardous materials incidents

_____/_____/_____
(Signature) (Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.3.1

Planning the Response

No.	Requirement
(2)	<p>b) Identify the purpose, advantages, and limitations of the following levels of personal protective clothing at hazardous materials incidents:</p> <ul style="list-style-type: none">a) Structural firefighting protective clothingb) High temperature protective clothingc) Chemical protective clothingd) Liquid splash protective clothinge) Vapor protective clothing <div style="text-align: right;"><div>_____ (Signature)</div><div>_____/_____/_____ (Date)</div></div>
Examiners Remarks	

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.3.1 Planning the Response

No.	Requirement
5.3.2	<p>The first responder at the operational level shall identify emergency decontamination procedures and meet the following requirements:</p> <div style="margin-left: 20px;"> <p>(1) Identify ways that personnel, personal protective equipment, apparatus, tools, and equipment become contaminated.</p> <div style="text-align: right; margin-right: 50px;"> _____ (Signature) </div> <div style="text-align: right;"> ____/____/____ (Date) </div> </div> <div style="margin-left: 20px;"> <p>(2) Describe how secondary contamination determines the need for emergency decontamination procedures.</p> <div style="text-align: right; margin-right: 50px;"> _____ (Signature) </div> <div style="text-align: right;"> ____/____/____ (Date) </div> </div> <div style="margin-left: 20px;"> <p>(3) Identify the purpose of emergency decontamination procedures at hazardous materials incidents.</p> <div style="text-align: right; margin-right: 50px;"> _____ (Signature) </div> <div style="text-align: right;"> ____/____/____ (Date) </div> </div> <div style="margin-left: 20px;"> <p>(4) Identify the advantages and limitations of emergency decontamination procedures.</p> <div style="text-align: right; margin-right: 50px;"> _____ (Signature) </div> <div style="text-align: right;"> ____/____/____ (Date) </div> </div>
<h3>Examiners Remarks</h3>	

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.3.1 Planning the Response

No.	Requirement
-----	-------------

- | | |
|-------|---|
| 5.3.2 | (5) Describe the procedure listed in the local emergency response plan or the organizations standard operating procedures for decontamination of a large number of people exposed to hazardous materials. |
|-------|---|

(Signature) ____/____/____
(Date)

- | | |
|--|--|
| | (6) Describe procedures, such as those listed in the local emergency response plan or the organizations standard operating procedures, to preserve evidence at hazardous materials incidents involving suspected criminal or terrorist acts. |
|--|--|

(Signature) ____/____/____
(Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.4.1 Implementing the Planned Response

No. Requirement

5.4.1 Given scenarios for facility and/or transportation hazardous materials incidents, the first responder at the operational level shall identify how to establish and enforce scene control including control zones, emergency decontamination, and communications and meet the following requirements:

- (1) Identify the procedures for establishing scene control through control zones.

_____/_____/_____
(Signature) (Date)

- (2) Identify the criteria for determining locations of the control zones at hazardous materials incidents

_____/_____/_____
(Signature) (Date)

- (3) Identify the basic techniques for the following protective actions at hazardous materials incidents:
- a) Evacuation
 - b) Sheltering in-place protection

_____/_____/_____
(Signature) (Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.4.1 Implementing the Planned Response

No.	Requirement
5.4.1	
(4)	Identify the considerations associated with locating emergency decontamination areas.
	<div style="display: flex; justify-content: space-between; width: 100%;"> <div>_____</div> <div>____/____/____</div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>(Signature)</div> <div>(Date)</div> </div>
(5)	Demonstrate the ability to perform emergency decontamination.
	<div style="display: flex; justify-content: space-between; width: 100%;"> <div>_____</div> <div>____/____/____</div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>(Signature)</div> <div>(Date)</div> </div>
(6)	Identify the items to be considered in a safety briefing prior to allowing personnel to work at the following:
	<div style="margin-left: 20px;">a) Hazardous materials incident</div> <div style="margin-left: 20px;">b) Hazardous materials incident involving criminal or terrorist activities</div>
	<div style="display: flex; justify-content: space-between; width: 100%;"> <div>_____</div> <div>____/____/____</div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <div>(Signature)</div> <div>(Date)</div> </div>
Examiners Remarks	

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.4.1 Implementing the Planned Response

No. Requirement

5.4.2 Given simulated facility and/or transportation hazardous materials incidents, the first responder at the operational level shall initiate the incident management system specified in the local emergency response plan and the organization's standard operating procedures and meet the following requirements:

- (1) Identify the role of the first responder at the operational level during hazardous materials incidents as specified in the local emergency response plan and the organization's standard operating procedures.

_____/____/____
(Signature) (Date)

- (2) Identify the levels of hazardous materials incidents as defined in the local emergency response plan.

_____/____/____
(Signature) (Date)

- (3) Identify the purpose, need, benefits, and elements on an incident management system at hazardous materials incidents

_____/____/____
(Signature) (Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.4.1

Implementing the Planned Response

No.	Requirement
-----	-------------

5.4.2

- | | |
|-----|---|
| (4) | Identify the considerations for determining the location of a command post at the hazardous materials incident. |
|-----|---|

_____	____/____/____
(Signature)	(Date)

- | | |
|-----|--|
| (5) | Identify the procedures for requesting additional resources at a hazardous materials incident. |
|-----|--|

_____	____/____/____
(Signature)	(Date)

- | | |
|-----|--|
| (6) | Identify the authority and responsibilities of the safety officer. |
|-----|--|

_____	____/____/____
(Signature)	(Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.4.1 Implementing the Planned Response

No.	Requirement
5.4.3	<p>The first responder at the operational level shall demonstrate the ability to don, work in, and doff the personal protective equipment provided by the authority having jurisdiction, and meet the following requirements:</p> <p>(1) Identify the importance of the buddy system in implementing planned defensive options.</p> <div style="text-align: right; margin-right: 50px;"> _____ (Signature) </div> <div style="text-align: right; margin-right: 50px;"> ____/____/____ (Date) </div> <p>(2) Identify the importance of the backup personnel in implementing planned defensive options.</p> <div style="text-align: right; margin-right: 50px;"> _____ (Signature) </div> <div style="text-align: right; margin-right: 50px;"> ____/____/____ (Date) </div> <p>(3) Identify the safety precautions to be observed when approaching and working at hazardous materials incidents.</p> <div style="text-align: right; margin-right: 50px;"> _____ (Signature) </div> <div style="text-align: right; margin-right: 50px;"> ____/____/____ (Date) </div>
Examiners Remarks	

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.4.1

Implementing the Planned Response

No. Requirement

5.4.3

(4) Identify the symptoms of heat and cold stress.

_____/_____/_____
(Signature) (Date)

(5) Identify the physical capabilities required for, and the limitations of, personnel working in the personal protective equipment as provided by the authority having jurisdiction.

_____/_____/_____
(Signature) (Date)

(6) Match the function of the operational components of the positive pressure self-contained breathing apparatus provided to the hazardous materials responder with the name of the component.

_____/_____/_____
(Signature) (Date)

(7) Identify the procedures for cleaning, disinfecting, and inspecting respiratory protective equipment.

_____/_____/_____
(Signature) (Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.4.1 Implementing the Planned Response

No. Requirement

5.4.3

(8) Identify the procedures for donning, working in, and doffing positive pressure self-contained breathing apparatus.

_____/____/____
(Signature) (Date)

(9) Demonstrate donning, working in, and doffing positive pressure self contained breathing apparatus.

_____/____/____
(Signature) (Date)

5.4.4 Given a plan of action for a hazardous materials incident within their capabilities, the first responder at the operational level shall demonstrate defensive control actions set out in the plan and shall meet the following related requirements:

(1) Using the type of fire-fighting foam or vapor suppressing agent and foam equipment furnished by the authority having jurisdiction, demonstrate the effective application of fire-fighting foam(s) or vapor suppressing agent(s) on a spill or fire involving hazardous materials.

_____/____/____
(Signature) (Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.4.1 Implementing the Planned Response

No. Requirement

5.4.4

(2) Identify the characteristics and applicability of the following foams:

- a) Protein
- b) Fluoroprotein
- c) Special purpose
 - i. Polar solvent alcohol resistant concentrates
 - ii. Hazardous materials concentrates
- d) Aqueous film-forming foam (AFFF)
- e) High expansion

_____/____/____
(Signature) (Date)

(3) Given the required tools and equipment, demonstrate how to perform the following defensive control techniques:

- | | | |
|---------------------|----------------------|--------------|
| a) Absorption | b) Damming | c) Diking |
| d) Dilution | e) Diversion | f) Retention |
| g) Vapor dispersion | h) Vapor suppression | |

_____/____/____
(Signature) (Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.4.1

Implementing the Planned Response

No.	Requirement
-----	-------------

5.4.3

- | |
|--|
| (4) Identify the location and describe the use of the mechanical, hydraulic, and air emergency remote shutoff devices found on cargo tanks |
|--|

_____	____/____/____
(Signature)	(Date)

- | |
|---|
| (5) Describe the objectives and dangers of search and rescue missions at hazardous materials incidents. |
|---|

_____	____/____/____
(Signature)	(Date)

- | |
|---|
| (6) Describe methods for controlling the spread of contamination to limit impacts of radioactive materials. |
|---|

_____	____/____/____
(Signature)	(Date)

Examiners Remarks

Competency Checklist

Competencies for Operations Level Responder

Responder _____ Date ____/____/____

The goal of these competencies for the Operations Level Responder shall be to provide the knowledge and skills necessary to perform the tasks, identified in the Operations Goals and Objectives, for the purpose of responding safely and implementing defensive actions at hazardous materials incidents. Additionally, it should be noted that responders at the Operations Level shall meet all competencies identified at the First Responder Level in addition to those identified within this document.

Area 5.5.1 Evaluating Progress

No. Requirement

5.5.1 Given simulated facility and/or transportation hazardous materials incidents, the first responder at the operational level shall evaluate the status of the defensive actions taken in accomplishing the response objectives and meet the following requirements:

- (1) Identify the considerations for evaluating whether defensive options are effective in accomplishing objectives,

(Signature) ____/____/____
(Date)

- (2) Describe circumstances under which it would be prudent to withdraw from a hazardous materials incident.

(Signature) ____/____/____
(Date)

Examiners Remarks