

**Colorado Division of Fire Safety  
Hazardous Materials Operations JPRs (NFPA 472, 2008 Edition)**

<b>JPR#</b>	<b>Task</b>	<b>Initial Certification JPR Requirement: 2 Mandatory 3 Random</b>  <b>Renewal JPR Requirement: 100% of All JPRs (including all subsections)</b>
1	Emergency Decontamination	Mandatory
2	MSDS	Mandatory
3	Scenario- Fire (Worksheet Attached)	Random
4	Scenario- Spill (Worksheet Attached)	Random
5	Pesticide Label (Worksheet Attached)	Random
6	Donning PPE	Random
7	Foam	Random
8	Defensive Control Actions	Random



# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

### 5.4 Core Competencies – Implementing the Planned Response

#### 5.4.1 Establishing and Enforcing Scene Control Procedures

**JPR #1**  
Revised 04/29/09

**Candidate:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**ID#:** \_\_\_\_\_

<b>STANDARD:</b> NFPA 472 2008 Edition: 5.4.1		<b>TASK:</b> Demonstrate the ability to perform emergency decontamination			
<b>PERFORMANCE OUTCOME:</b> The candidate will successfully demonstrate each ability identified within this JPR.					
<b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.					
<b>Equipment required:</b> Personal protective equipment, self-contained breathing apparatus (SCBA), water supply, hoses, brushes, containment area, product name and Emergency Response Guidebook (ERG).					
No.	TASK STEPS SCENARIO – SPILL/LEAK	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the contaminated person.				
2.	Remove contaminated person from threatened area.				
3.	Remove contaminated person's helmet and flood victim with water.				
4.	Remove contaminated person's SCBA leaving the mask in place.				
5.	Remove contaminated person's clothing while maintaining continuous washing.				
	a. Remove coat.				
	b. Remove pants				
	c. Remove flash hoods				
	d. Remove SCBA mask				
6.	Remove victim to clean area.				
7.	Inform medical personnel of contaminant.				

**Proctor/Evaluator Comments:** \_\_\_\_\_  
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# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

**5.2 Core Competencies – Analyzing the Incident**  
**5.2.2 Collecting Hazard and Response information**  
**Standard Area: Analyzing the Incident**

**JPR #2**  
**Revised 04/29/09**

**Candidate:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**ID#:** \_\_\_\_\_

<b>STANDARD:</b> NFPA 472, 2008 Edition: 5.2.2	<b>TASK:</b> Given an Material Safety Data Sheet (MSDS) for a specified material, identify the following hazard and response information: (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) Personal exposure limits (g) Manufacturers contact (h) Precautions for safe handling(including hygiene practices, protective measures, and procedures for cleanup of spills and leaks) (i) Applicable control measures, including personal protective equipment (j) Emergency and first-aid procedures
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**PERFORMANCE OUTCOME:** The candidate will complete this task within 30 minutes with a minimum of 18 of 23 items answered correctly.

**CONDITIONS:** Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.

**EQUIPMENT REQUIRED:** MATERIAL SAFETY DATA SHEET (MSDS) AS PROVIDED BY THE AUTHORITY HAVING JURISDICTION (AHJ)

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Physical and chemical characteristics				
	a. Boiling point:				
	b. Specific gravity and/or vapor density:				
	c. Appearance/physical state:				
	d. Odor:				
	e. Flash point:				
	f. Vapor pressure:				
	g. Flammable range:				
	h. Water solubility:				
2.	Physical hazards of the material:				
3.	Health hazards of the material:				
4.	Signs and symptoms of exposure:				



# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

**5.2 Core Competencies – Analyzing the Incident**  
**5.2.2 Collecting Hazard and Response information**  
**Standard Area: Analyzing the Incident**

**JPR #2**  
**Revised 04/29/09**

5.	Routes of entry:				
6.	Personal exposure limits:				
	a. PEL/PEL-C				
	b. TLV/TWA				
	c. STEL				
	d. IDLH				
	e. LD50/LC50				
7.	Manufacturer contact:				
8.	Precaution for safe handling:				
	a. Hygiene practices:				
	b. Protective measures:				
9.	Applicable control measures:				
10.	Personal Protective Equipment:				
11.	Emergency and first-aid procedures:				

**Proctor/Evaluator Comments:** \_\_\_\_\_

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# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

**5.2 Core Competencies – Analyzing the Incident**  
**5.2.2 Collecting Hazard and Response information**  
**Standard Area: Analyzing the Incident**

**JPR #2 Practical Worksheet**  
**Revised 04/29/09**

**Candidate:** \_\_\_\_\_

**ID#:** \_\_\_\_\_

Given a Material Safety Data Sheet (MSDS), identify the following hazard and response information.

1. Physical and Chemical characteristics:

- a. Boiling point \_\_\_\_\_
- b. Specific gravity and/or vapor density \_\_\_\_\_
- c. Appearance/physical state \_\_\_\_\_
- d. Odor \_\_\_\_\_
- e. Flash point \_\_\_\_\_
- f. Vapor pressure \_\_\_\_\_
- g. Flammable range \_\_\_\_\_
- h. Water solubility \_\_\_\_\_

2. Physical hazards of the material:

3. Health hazards of the material:

4. Signs and symptoms of exposure:

5. Routes of entry:

6. Personal exposure limits:

- a. PEL/PEL-C \_\_\_\_\_
- b. TLV/TWA \_\_\_\_\_
- c. STEL \_\_\_\_\_
- d. IDLH \_\_\_\_\_
- e. LD50/LC50 \_\_\_\_\_

7. Manufacturer contact:

8. Precaution for safe handling (including hygiene practices and protective measures):

9. Applicable control measures:

10. Personal protective equipment:

11. Emergency and first aid procedures:

**You have 30 minutes to complete this exercise.**



# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

### 5.2 Core Competencies – Analyzing the Incident

#### 5.2.2 Collecting Hazard and Response Information

##### 6.6.3.1 Identifying Control Options

**JPR #3:**  
Revised 04/29/09

**Candidate:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**ID#:** \_\_\_\_\_

<b>STANDARD:</b> NFPA 472 2008 Edition: 5.2.2, 6.6.3.1	<b>TASK:</b> Given an example of a scenario involving known hazardous materials, interpret the hazard and response information obtained from the current edition of the Emergency Response Guidebook (ERG) and a Material Safety Data Sheet (MSDS).
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**PERFORMANCE OUTCOME:** The candidate will complete this task within 30 minutes.

**CONDITIONS:** Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.

**Equipment required:** MSDS provided by authority having jurisdiction and current edition of ERG.

No.	TASK STEPS SCENARIO – FIRE AT A CHEMICAL PLANT	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Initiate incident management system according to National Incident Management System (NIMS)				
2.	Container behavior				
3.	Material behavior				
4.	Product control measures				
5.	Evaluate and communicate progress and needs				

**Proctor/Evaluator Comments:** \_\_\_\_\_

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**Proctor/Evaluator** (Print & Sign)

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# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

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5.2 Core Competencies – Analyzing the Incident  
5.2.2 Collecting Hazard and Response Information  
6.6.3.1 Identifying Control Options

**JPR #3 Practical Worksheet**  
Revised 04/29/09

**Candidate:** \_\_\_\_\_

**ID#:** \_\_\_\_\_

Using a Material Safety Data Sheet (MSDS) and the Emergency Response Guidebook, interpret the hazards and response information for the following scenario:

**Scenario 1:** Fire at a chemical plant – Discuss incident management, container behavior, material behavior and appropriate control measures.

**You have 30 minutes to complete this exercise.**



# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

5.2 Core Competencies – Analyzing the Incident  
 5.2.2 Collecting Hazard and Response Information  
 6.6.3.1 Identifying Control Options

**JPR #4**  
 Revised 04/29/09

**Candidate:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**ID#:** \_\_\_\_\_

<b>STANDARD:</b> NFPA 472 2008 Edition: 5.2.2, 6.6.3.1		<b>TASK:</b> Given an example of a scenario involving known hazardous materials, interpret the hazard and response information obtained from the current edition of the Emergency Response Guidebook (ERG) and a Material Safety Data Sheet (MSDS).			
<b>PERFORMANCE OUTCOME:</b> The candidate will complete this task within 30 minutes.					
<b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.					
<b>Equipment required:</b> MSDS provided by authority having jurisdiction and current edition of ERG.					
No.	TASK STEPS SCENARIO – SPILL/LEAK	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Initiate incident management system according to National Incident Management System (NIMS)				
2.	Material behavior				
3.	Product control measures				
4.	Evaluate and communicate progress and needs				

**Proctor/Evaluator Comments:** \_\_\_\_\_  
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# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

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5.2 Core Competencies – Analyzing the Incident  
5.2.2 Collecting Hazard and Response Information  
6.6.3.1 Identifying Control Options

JPR #4 Practical Worksheet  
Revised 04/29/09

**Candidate:** \_\_\_\_\_

**ID#:** \_\_\_\_\_

Using a Material Safety Data Sheet (MSDS) and the Emergency Response Guidebook, interpret the hazards and response information for the following scenario:

**Scenario:** Spill/Leak – Discuss incident management, material behavior and appropriate control measures.

**You have 30 minutes to complete this exercise.**



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**HAZARDOUS MATERIALS OPERATIONS**  
**NFPA 472, 2008 EDITION**

**5.2 Core Competencies – Analyzing the Incident**  
**5.2.1 Surveying Hazardous Materials/WMD Incidents**  
**Standard Area: Analyzing the Incident**

**JPR #5**  
 Revised 04/29/09

**Candidate:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**ID#:** \_\_\_\_\_

<b>STANDARD:</b> NFPA 472, 2008 Edition: 5.2.1.3.2	<b>TASK:</b> Given a pesticide label, identify each of the following pieces of information; then match the pieces of information to the overall significance in surveying the hazardous materials incident.				
<b>PERFORMANCE OUTCOME:</b> The candidate will complete this task within 15 minutes.					
<b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.					
<b>EQUIPMENT REQUIRED:</b> PESTICIDE LABEL.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the Product Name:				
2.	Identify the Signal Word and its significance:				
3.	Identify the EPA Registry Number:				
4.	Identify the Precautionary Statement:				
5.	Identify the Hazard Statement:				
6.	Identify the Active Ingredient and its significance:				

**Proctor/Evaluator Comments:** \_\_\_\_\_

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**HAZARDOUS MATERIALS OPERATIONS**  
**NFPA 472, 2008 EDITION**

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**5.2 Core Competencies – Analyzing the Incident**  
**5.2.1 Surveying Hazardous Materials/WMD Incidents**  
**Standard Area: Analyzing the Incident**

**JPR #5**  
Revised 04/29/09

**Candidate:** \_\_\_\_\_

**ID#:** \_\_\_\_\_

### **JPR #5 Practical Worksheet**

Using a Pesticide Label, identify the following information:

1. Product Name: \_\_\_\_\_
2. Signal Word and significance:  
Signal Word: \_\_\_\_\_  
Significance: \_\_\_\_\_
3. EPA Registry Number: \_\_\_\_\_
4. Precautionary Statement: \_\_\_\_\_
5. Active Ingredient and significance:  
Active Ingredient: \_\_\_\_\_  
Significance: \_\_\_\_\_

**You have 15 minutes to complete this exercise.**



# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

5.4 Core Competencies – Implementing the Planned Response  
 5.4.4 Using Personal Protective Equipment  
 6.2 Mission Specific Competencies – Personal Protective Equipment  
 6.2.4.1 Using Protective Clothing and Respiratory Protection

JPR #6  
 Revised 04/29/09

Candidate: \_\_\_\_\_  
 ID#: \_\_\_\_\_

Date: \_\_\_\_\_

<b>STANDARD:</b> NFPA 472, 2008 Edition: 5.4.4, 6.2.4.1(4)		<b>TASK:</b> Demonstrate donning PPE with self-contained breathing apparatus (SCBA), working in, decontamination, and doffing.			
<b>PERFORMANCE OUTCOME:</b> The candidate will successfully demonstrate each ability identified within this JPR.					
<b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.					
<b>Equipment required:</b> Personal protective equipment, SCBA and decontamination materials according to Authority Having Jurisdiction (AHJ).					
No.	TASK STEPS SCENARIO – SPILL/LEAK	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Don structural firefighting gear or chemical protective clothing (Level B).				
2.	Don SCBA.				
	a. Open cylinder fully.				
	b. Secure straps on SCBA.				
	c. Don face piece.				
	d. Check face seal.				
	e. Hook up air supply.				
3.	Work in contaminated area.				
4.	Exit contaminated area.				
5.	Perform technical decontamination and doff PPE as provided by AHJ.				
6.	Complete necessary documentation, as required by AHJ and place all equipment in a ready state for reuse.				

Proctor/Evaluator Comments: \_\_\_\_\_

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# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

### 6.6 Mission Specific Competencies – Product Control

#### 6.6.3.1 Identifying Control Options

#### 6.6.4.1 Performing Control Options

**JPR #7:**  
Revised 04/29/09

**Candidate:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**ID#:** \_\_\_\_\_

<b>STANDARD:</b> NFPA 472 2008 Edition: 6.6.3.1, 6.6.4.1	<b>TASK:</b> Using the type of fire-fighting foam or vapor suppressing agent and foam equipment furnished by the authority having jurisdiction, demonstrate the proper application of the fire-fighting foam(s) or vapor suppressing agent(s) on a spill or fire involving hazardous materials.
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**PERFORMANCE OUTCOME:** The candidate will successfully demonstrate each ability identified within this JPR.

**CONDITIONS:** Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.

**Equipment required:** Fire-fighting foam or vapor suppression agent, foam equipment, fire apparatus, hazardous liquid, and burn area. Full protective clothing and self contained breathing apparatus (SCBA).

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Approach the spill or fire from uphill and upwind.				
2.	Set nozzle to correct pattern (and GPM flow, if applicable).				
3.	Use correct application procedures to effectively control vapors or fire				
	a. Banked down.				
	b. Roll on.				
	c. Rain down				
4.	Did not disturb the foam blanket.				
5.	Safely exited the hazardous area.				

**Proctor/Evaluator Comments:** \_\_\_\_\_

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# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

### 6.6 Mission Specific Competencies – Product Control

#### 6.6.3.1 Identifying Control Options

#### 6.6.4.1 Performing Control Options

**JPR #8:**  
Revised 04/29/09

**Candidate:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**ID#:** \_\_\_\_\_

<b>STANDARD:</b> NFPA 472 2008 Edition: 6.6.3.1, 6.6.4.1	<b>TASK:</b> Given the appropriate tools and equipment, demonstrate how to perform the following defensive control activities: (a) Absorption (e) Diversion (b) Damming (f) Retention (c) Diking (g) Vapor dispersion (d) Dilution (h) Remote valve shut-off
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**PERFORMANCE OUTCOME:** The candidate will successfully demonstrate each ability identified within the checklist with at least 24 of 30 items completed correctly.

**CONDITIONS:** Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.

**Equipment required:** Personal protective equipment, self-contained breathing apparatus (SCBA), shovels, rakes, absorbent materials, dirt, sand or hay, plastic sheeting, and a leaking container.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Absorption:				
	a. Use common, available materials.				
	b. Avoid contact with the hazardous material.				
	c. Ensure drains do not become contaminated.				
	d. Ensure hazardous material is absorbed into absorbent material.				
2.	Damming:				
	a. Use common, available materials.				
	b. Avoid contact with the hazardous material.				
	c. Ensure dam is not breached.				
3.	Diking:				
	a. Use common, available materials.				
	b. Avoid contact with the hazardous material.				
	c. Form a "v" and a "circle" dike.				
	d. Ensure hazardous material does not enter drains or manholes.				
4.	Dilution				
	a. Use common, available materials.				
	b. Avoid contact with the hazardous material.				



# HAZARDOUS MATERIALS OPERATIONS

## NFPA 472, 2008 EDITION

### 6.6 Mission Specific Competencies – Product Control

**JPR #8:**

#### 6.6.3.1 Identifying Control Options

Revised 04/29/09

#### 6.6.4.1 Performing Control Options

	c. Ensure the hazardous material is water soluble.				
	d. Do NOT overflow retention pond of hazardous material.				
5.	Diversion:				
	a. Use common, available materials.				
	b. Avoid contact with the hazardous material.				
	c. Ensure hazardous material is diverted away from drains and waterways.				
	d. Make sure the hazardous material does NOT breach the diversion.				
6.	Retention:				
	a. Define the purpose of retention.				
	b. Use common, available materials.				
	c. Avoid contact with the hazardous material				
	d. Ensure product flow does not exceed retention area.				
7.	Vapor Dispersion:				
	a. Avoid contact with the hazardous material.				
	b. Eliminate ignition sources, if applicable.				
	c. Use water spray or fans to control dispersion.				
	d. Move vapors away from threatened area.				
8.	Remote valve shut-off:				
	a. Avoid contact with the hazardous material.				
	b. Eliminate ignition sources, if applicable.				
	c. Manipulate valve as instructed to control the flow of the product.				

**Proctor/Evaluator Comments:** \_\_\_\_\_

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