



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.4.3 PERFORMING CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

**JPR - HMT #1a**

Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-4.3(1) and 6-4.3.(2) NFPA 472 2002 Edition	<b>TASK:</b> 6-4.3(1) – The candidate shall select the appropriate material or equipment and demonstrate a method(s) to contain leaks from the following locations: (a) fusible metal of plug; (b) fusible plug threads; (c) side wall of cylinder; (d) valve blowout; (e) valve gland; (f) valve inlet threads; (g) valve seat; and (h) valve stem assembly blowout. 6-4.3(2) – The candidate shall demonstrate the ability to perform the following: (a) close valves that are open; (b) replace missing plugs; and (c) tighten loose plugs.
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**PERFORMANCE OUTCOME:** The candidate shall correctly select materials and equipment and locate and contain leaks.

**CONDITIONS:** Given Chlorine "A" kit, level "A" PPE, and Pressurized 150 lb. Chlorine training cylinder, control leaks coming from orifices, opening, and valving.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Approach the simulator safely				
2.	Locate all liquid and vapor leaks				
3.	Select appropriate control devices				
4.	Close (open, if needed)/tighten all open valves				
5.	Valve gland				
6.	Valve seat				
7.	Valve inlet threads				
8.	Valve blow-out				
9.	Fusible metal plug				
10.	Fusible plug threads				
11.	Valve stem assembly blow-out				
12.	Tighten loose plugs				
13.	Side wall of cylinder				
14.	Replace missing plugs				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.4 IMPLEMENTING THE PLANNED RESPONSE

#### 6.4.3 PERFORMANCE CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

**JPR - HMT #1b**  
Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-4.3(1) & 6-4.3(2) NFPA 472 2002 Edition	<b>TASK:</b> 6-4.3(1) – Given a pressure vessel, select the appropriate material or equipment and demonstrate a method(s) to contain leaks from the following locations: (a) fusible metal of plug; (b) fusible plug threads; (c) side wall of cylinder; (d) valve blowout; (e) valve gland; (f) valve inlet threads; (g) valve seat; and (h) valve stem assembly blowout. 6-4.3(2) – The candidate shall demonstrate the ability to perform the following: (a) close valves that are open.
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**PERFORMANCE OUTCOME:** The candidate, working as a member of a team (two- or three-person teams), shall demonstrate methods to contain leaks on a pressurized one-ton chlorine bulk container using a Chlorine "B" Kit.

**CONDITIONS:** Chlorine "B" Kit, level "A" PPE, and pressurized one-ton chlorine training cylinder. Control leaks coming from orifices, openings, and valving.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Approach the simulator safely				
2.	Locate all liquid and vapor leaks				
3.	Select appropriate control device				
4.	Close (open, if needed)/tighten all open valves				
5.	Valve gland				
6.	Valve seat				
7.	Valve inlet threads				
8.	Valve blowout				
9.	Fusible plug threads				
10.	Valve stem assembly blowout				
11.	Fusible metal plug				
12.	Side wall of cylinder				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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**Proctor/Supervisor (Print & Sign)**                      **Date**                      **Candidate**                      **Date**

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**Re-Test Proctor/Supervisor**                      **Date**                      **Re-Test Candidate**                      **Date**



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

**6.4 IMPLEMENTING THE PLANNED RESPONSE**  
**6.4.3 PERFORMANCE CONTROL FUNCTIONS IDENTIFIED**  
**IN PLAN OF ACTION**

**JPR - HMT #1c**  
 Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-4.3(2) #2 NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall demonstrate the ability to perform the following: (a) approach simulator in a safe manner; (b) open dome cover; (c) locate all leaks and vapor valves, fittings, etc.; (d) tighten loose nuts, plugs; and (e) replace missing plugs.				
<b>PERFORMANCE OUTCOME:</b> The candidate, working as a member of a team (two- or three-person teams), shall demonstrate the ability to control liquid and vapor leaks on a pressurized railcar training dome properly.					
<b>CONDITIONS:</b> Chlorine "C" Kit, level "A" PPE, and pressurized railcar training dome. Controls leaks coming from orifices, openings, and valving.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Approach the simulator safely				
2.	Open dome cover safely				
3.	Locate all leaking liquid and vapor valves, fittings, etc.				
4.	Close (open, if needed)/tighten all open valves				
5.	Tighten loose valve packing nuts				
6.	Tighten loose plugs				
7.	Replace missing plugs				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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

**Date**

**Candidate**

**Date**

**Re-Test Proctor/Supervisor**

**Date**

**Re-Test Candidate**

**Date**



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.4 IMPLEMENTING THE PLANNED RESPONSE

#### 6.4.3 PERFORMANCE CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

**JPR – HMT #1d**

Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-4.3(3) and 6-4.3(4) NFPA 472 2002 Edition	<b>TASK:</b> 6-4.3(3) and 6-4.3(4) - The candidate shall demonstrate the ability to contain the following types of leaks using appropriate tools and materials: (a) bung leak; (b) chime leak; (c) forklift puncture; and (d) nail puncture. 6-4.3(4) – The candidate shall demonstrate the ability to place the 55-gallon (208L) drum into the overpack drum using the following methods: (a) rolling slide-in; (b) slide-in; and (c) slipover.				
<b>PERFORMANCE OUTCOME:</b> The candidate, working as a member of a team, shall demonstrate the ability to contain four common types of leaks associated with 55-gallon drums and be able to perform three methods of drum over-packing.					
<b>CONDITIONS:</b> Four 55-gallon (208L) drums, bung wrench, plug and patch materials kit, three over-pack drums, level "A" protective clothing, and SCBA.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Contain a 55-Gallon Drum Bung Leak 6-4.3 (3) (4)				
	a) Tighten leaking bung to contain leak				
	b) Contained leaking drum by other means				
	c) Upright drum after controlling leak				
2.	Contain a 55-Gallon Drum Chime Leak 6-4.3 (3) (4)				
	a) Contained leak by application of putty, lead wool, or other appropriate material				
	b) Turned drum over so the leaking chime is upright				
3.	Contain a 55-Gallon Drum Nail Puncture Leak 6-4.3 (3) (4)				
	a) Contained leak by inserting a plug or applying a patch				
	b) Turn or upright the drum to a position where product flow ceases				
4.	Contain a 55-Gallon Forklift Puncture Leak				
	a) Used appropriate tools and materials provided by authority having jurisdiction and contained the leak				
5.	Over-Pack Leaking 55-Gallon Drum 6-4..(3) (4)				
	a) Slide-in				
	b) Rolling slide-in				
	c) Slip-over				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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**Proctor/Supervisor (Print & Sign)**                      **Date**                      **Candidate**                      **Date**

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**Re-Test Proctor/Supervisor**                      **Date**                      **Re-Test Candidate**                      **Date**



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.4 IMPLEMENTING THE PLANNED RESPONSE

**JPR - HMT #2a**

#### 6.4.1 PERFORMING INCIDENT MANAGEMENT DUTIES

Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-4.1 (3) NFPA 473 2002 Edition	<b>TASK:</b> Demonstrate setup of the decontamination corridor as specified in the planned response.				
<b>PERFORMANCE OUTCOME:</b> As a member of a team, given a simulated hazardous material incident, establish a contamination reduction corridor according to local plans and standard operating procedures.					
<b>CONDITIONS:</b> Given decontamination equipment provided by the authority having jurisdiction and local plans and standard operating procedures provided by the authority having jurisdiction.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Establish a Contamination Reduction Corridor				
	a) Obtained local plan and standard operating procedures				
	b) Gathered needed equipment to establish the Contamination Reduction Corridor (CRC)				
	c) Provided a water source for decontamination				
2.	Minimum Requirements				
	a) Measures are taken to protect environment from contamination according to the plan				
	b) Pools or basins used to contain decontamination solution run-off				
	c) Entry and exit points clearly marked				
	d) Container available to contain contaminated tools, equipment, and clothing				
	e) Precautions taken to eliminate cross and secondary contamination				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.4 IMPLEMENTING THE PLANNED RESPONSE

**JPR - HMT #2b**

#### 6.4.1 PERFORMING INCIDENT MANAGEMENT DUTIES

Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-4.1 (4) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall demonstrate the decontamination process specified in the planned response.				
<b>PERFORMANCE OUTCOME:</b> The candidate, working as a member of a team of no more than eight members and given a local decontamination plan and decontamination equipment, shall demonstrate how to perform the decontamination process in the given plan.					
<b>CONDITIONS:</b> Water supply, decontamination supplies and equipment, local decontamination plan, and <i>Hazardous Materials Response Plan</i> .					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Demonstrate the Decontamination Process				
	a) Obtain local decontamination plan				
	b) Perform decontamination according to local plan and requirements				
2.	The following decontamination steps must be accomplished in the order listed:				
	a) Enter decontamination area and drop-off tools				
	b) Perform gross decontamination to remove as much contamination as possible				
	c) Remove protective clothing				
	d) Remove SCBA				
	e) Remove personal clothing				
	f) Personal shower				
	g) Clothing replacement				
	h) Medical evaluation				
3.	Decontamination Workers				
	a) Performed decontamination on each other				
	b) Avoided cross-contamination				
	c) Ensured contamination tools and equipment were contained in drums				

**Proctor/Supervisor Comments:** \_\_\_\_\_

Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.4 IMPLEMENTING THE PLANNED RESPONSE

#### 6.4.2 USING PROTECTIVE CLOTHING AND

#### 6.4.3 PERFORMING CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

**JPR – HMT #3a**

Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6.4.2 (4)(5) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall demonstrate donning, working in, and doffing chemical-protective clothing in addition to any other specialized protective equipment provided by the authority having jurisdiction. The candidate will also demonstrate the ability to record the use, repair and testing of chemical-protective clothing according to the manufacturer's specifications and recommendations				
<b>PERFORMANCE OUTCOME:</b> The candidate shall demonstrate the ability to don, work in, and doff EPA level A vapor-protective clothing.					
<b>CONDITIONS:</b> SCBA, EPA level A vapor-protective clothing as specified in NFPA 471, 5.5.1, small step ladder.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Inspect Vapor-Protective Clothing and SCBA 6.4.2(5)				
	a) Inspect SCBA				
	1. Inspect suite for:				
	• Tears				
	• Holes				
	• Discoloration				
	• Seams/stitches				
	• Boot and glove attachments				
	• Suite integrity				
• Other items as identified by the manufacturer					
2.	Don Vapor-Protective Clothing and SCBA 6.4.2 (4)				
	a) Adjust head piece or hat				
	b) While seated, place feet into suit and gather the suit around waist				
	c) Don Chemical boots				
	d) Don SCBA (assistance authorized), make connections, and breathe air, when applicable, on SCBA and suit type				
	e) Put on inner gloves, if required				
	f) Place arm into sleeve				
g) Ensure zippers/closures are securely fastened					
3.	Work in Vapor-Protective Clothing and SCBA provided by the authority having jurisdiction 6.4.2 (4)				
	a) Work in personal protective equipment				

4.	Doff Vapor-Protective Clothing and SCBA according to authority having jurisdiction 4.4.2.4				
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**Proctor/Supervisor Comments:**

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<b>Proctor/Supervisor (Print &amp; Sign)</b>	<b>Date</b>	<b>Candidate</b>	<b>Date</b>
<b>Re-Test Proctor/Supervisor</b>	<b>Date</b>	<b>Re-Test Candidate</b>	<b>Date</b>



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.4 IMPLEMENTING THE PLANNED RESPONSE

**JPR – HMT #3b**

#### 6.4.2 USING PROTECTIVE CLOTHING AND

Revised 6/22/2006

#### 6.4.3 PERFORMING CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6.4.2 (4)(5) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall demonstrate donning, working in, and doffing chemical-protective clothing in addition to any other specialized protective equipment provided by the authority having jurisdiction. The candidate will also demonstrate the ability to record the use, repair and testing of chemical-protective clothing according to the manufacturer's specifications and recommendations				
<b>PERFORMANCE OUTCOME:</b> The candidate shall demonstrate the ability to don, work in, and doff EPA level B splash-protective clothing.					
<b>CONDITIONS:</b> SCBA, EPA level B splash-protective clothing as specified in NFPA 471, 5.5.1, small step ladder.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Inspect Splash-Protective Clothing and SCBA or SABA 6.4.2(5)				
	a) Inspect SCBA				
	1. Inspect suite for:				
	• Tears				
	• Holes				
	• Discoloration				
	• Seams/stitches				
	• Boot and glove attachments (if present)				
	• Suite integrity				
• Other items as identified by the manufacturer					
2.	Don Splash-Protective Clothing and SCBA or SABA 6.4.2 (4)				
	a) Adjust head piece or hat				
	b) While seated, place feet into suit and gather the suit around waist				
	c) Don Chemical boots				
	d) Don SCBA or SABA (assistance authorized), make connections, and breathe air, when applicable, on SCBA or SABA and suit type				
	e) Put on inner gloves, if required				
	f) Place arm into sleeve				
g) Ensure zippers/closures are securely fastened					
3.	Work in Splash-Protective Clothing and SCBA or SABA provided by the authority having jurisdiction 6.4.2 (4)				
	a) Work in personal protective equipment				

4.	Doff Splash-Protective Clothing and SCBA or SABA according to authority having jurisdiction 4.4.2.4				
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**Proctor/Supervisor Comments:**

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

**Date**

**Candidate**

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**Re-Test Proctor/Supervisor**

**Date**

**Re-Test Candidate**

**Date**



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.4 IMPLEMENTING THE PLANNED RESPONSE

**JPR - HMT #3c**

#### 6.4.2 USING PROTECTIVE CLOTHING AND

Revised 6/22/2006

#### 6.4.3 PERFORMING CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6.4.2 (4)(5) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall demonstrate donning, working in, and doffing chemical-protective clothing in addition to any other specialized protective equipment provided by the authority having jurisdiction. The candidate will also demonstrate the ability to record the use, repair and testing of chemical-protective clothing according to the manufacturer's specifications and recommendations				
<b>PERFORMANCE OUTCOME:</b> The candidate shall demonstrate the ability to don, work in, and doff EPA level C splash-protective clothing.					
<b>CONDITIONS:</b> APR/PAPR, EPA level C splash-protective clothing as specified in NFPA 471, 5.5.1, small step ladder.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Candidate will verbalize at least 1 of the five requirements for using APR/PAPR (Proctor: Please circle identified requirements) <ol style="list-style-type: none"> <li>1. Type of substance</li> <li>2. Concentration is continuously measured</li> <li>3. Concentration is elow IDLH</li> <li>4. Oxygen content is at least 19.5%</li> <li>5. Filter canister used is designed for contaminant</li> </ol>				
2.	Inspect Splash-Protective Clothing and APR/PAPR 6.4.2(5) <ol style="list-style-type: none"> <li>a) Inspect APR/PAPR               <ol style="list-style-type: none"> <li>1. Inspect suite for:                   <ul style="list-style-type: none"> <li>• Tears</li> <li>• Holes</li> <li>• Discoloration</li> <li>• Seams/stitches</li> <li>• Boot and glove attachments (if present)</li> <li>• Suite integrity</li> <li>• Other items as identified by the manufacturer</li> </ul> </li> </ol> </li> </ol>				
3.	Don Splash-Protective Clothing 6.4.2 (4) <ol style="list-style-type: none"> <li>a) Adjust head piece or hat</li> <li>b) While seated, place feet into suit and gather the suit around waist</li> <li>c) Don Chemical boots</li> <li>d) Don APR/PAPR (assistance authorized), make connections, and breathe air, when applicable, on APR/PAPR and suit type</li> <li>e) Put on inner gloves, if required</li> <li>f) Place arm into sleeve</li> </ol>				

	g) Ensure zippers/closures are securely fastened				
4.	Work in Splash-Protective Clothing and SCBA provided by the authority having jurisdiction 6.4.2 (4)				
	a) Work in personal protective equipment				
5.	Doff Splash-Protective Clothing and APR/PAPR according to authority having jurisdiction 4.4.2.4				

**Proctor/Supervisor Comments:**

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<b>Proctor/Supervisor (Print &amp; Sign)</b>	<b>Date</b>	<b>Candidate</b>	<b>Date</b>
<b>Re-Test Proctor/Supervisor</b>	<b>Date</b>	<b>Re-Test Candidate</b>	<b>Date</b>



# HAZARDOUS MATERIALS TECHNICIAN NFPA 472, 2002 Edition

## 6.2 ANALYZING THE INCIDENT

**JPR – HMT #4a**

### 6.2.1 SURVEYING THE HAZARDOUS MATERIAL INCIDENT

Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6.2.3.1(D) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall demonstrate a method for collecting a sample of a liquid, solid, and gas material.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall properly handle secure and mark samples given					
<b>CONDITIONS:</b> Given manufacturer's operating instructions for equipment provided by authority having jurisdiction.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Collection of Samples – Material 1 (Solid)				
	a) Selected appropriate equipment				
	b) Used proper technique				
2.	Collection of Samples – Material 2 (Liquid)				
	a) Selected appropriate equipment				
	b) Used proper technique				
3.	Collection of Samples – Material 3 (Gas)				
	a) Selected appropriate equipment				
	b) Used proper technique				
4.	Samples properly handled, secured, and marked				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.2 ANALYZING THE INCIDENT

**JPR – HMT #4b**

#### 6.2.1 SURVEYING THE HAZARDOUS MATERIAL INCIDENT

Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6.2.1.3 (E) NFPA 472 2002 Edition	<b>TASK:</b> Given three hazardous materials—one of which is a solid, one a liquid, and one a gas—and the following monitoring equipment, test strips, and reagents, the candidate shall select the appropriate equipment and demonstrate the proper techniques to identify and quantify the materials: (a) carbon monoxide meter; (b) colorimetric tubes; (c) combustible gas indicator; (d) oxygen meter; (e) ph indicators and/or ph meters; (f) radiation detection instruments; (g) reagents; and (h) test strips.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall correctly identify & quantify the materials given					
<b>CONDITIONS:</b> Given carbon monoxide meter (Option A), combustible gas indicator (Option B), and oxygen monitor (Option C).					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Carbon Monoxide Meter (Option A)				
	a) Device field calibrated according to manufacturer's specifications				
	b) Appropriate personal protective equipment				
	c) Proper approach				
	d) Sample identified				
	e) Results quantified				
	f) Identify limiting factors associated with the selection and use of this meter				
2.	Combustible Gas Indicator (Option B)				
	a) Device field calibrated according to manufacturer's specifications				
	b) Appropriate personal protective equipment				
	c) Proper approach				
	d) Sample identified				
	e) Results quantified				
	f) Identify the limiting factors associated with the selection and use of this meter				
	g) Given an example of a domestic gas line break and the readings from a combustible gas indicator, determine the area of evacuation				
3.	Oxygen Monitor (Option C)				
	a) Device field calibrated according to manufacturer's specifications				
	b) Appropriate personal protective equipment				
	c) Proper approach				
	d) Sample identified				
	e) Results quantified				
	f) Identify the limiting factors associated with the selection and use of this meter				

**Proctor/Supervisor Comments:**

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

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**Date**

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**Candidate**

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**Date**

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**Re-Test Proctor/Supervisor**

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**Date**

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**Re-Test Candidate**

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**Date**



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.2 ANALYZING THE INCIDENT

**JPR – HMT #4c**

#### 6.2.1 SURVEYING THE HAZARDOUS MATERIAL INCIDENT

Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6.2.1.3 E #2 NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall select the appropriate techniques to identify and quantify the materials: (a) carbon monoxide meter; (b) colorimetric tubes; (c) combustible gas indicator; (d) oxygen meter; (e) ph indicators and/or ph meters; (f) radiation detection equipment; (g) reagents; and (h) test strips. The candidate shall identify or classify and quantify, by hazard, each unknown material, select appropriate equipment, and demonstrate proper techniques.
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**PERFORMANCE OUTCOME:** The candidate shall correctly identify & quantify the materials given

**CONDITIONS:** Given three materials (one solid, one liquid, one gas) and appropriate monitoring equipment, test strips and reagents.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Material 1 (Solid)				
	a) Selected appropriate equipment				
	b) Used proper technique				
	c) Classified or identified by hazard				
2.	Material 2 (Liquid)				
	a) Selected appropriate equipment				
	b) Used proper technique				
	c) Classified or identified by hazard				
3.	Material 3 (Gas)				
	a) Selected appropriate technique				
	b) Used proper technique				
	c) Classified or identified by hazard				
	d) Quantified (concentration in air)				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.2 ANALYZING THE INCIDENT

**JPR - HMT #4d**

#### 6.2.1 SURVEYING THE HAZARDOUS MATERIAL INCIDENT

Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6.2.1.3 (F) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall demonstrate the field maintenance and testing procedures for the monitoring equipment, test strips, and reagents provided by the authority having jurisdiction.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall demonstrate proper field maintenance and testing procedures					
<b>CONDITIONS:</b> Given manufacturer's operating instructions for equipment provided by the authority having jurisdiction.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Demonstrate proper field calibration and inspection procedures				
	a) monitoring equipment				
	b) test strips				
	c) reagents				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.4 IMPLEMENTING THE PLANNED RESPONSE

**JPR – HMT #5a**

### 6.4.2 USING PROTECTIVE CLOTHING & RESPIRATORY PROTECTION

Revised 6/22/2006

### 6.4.3 PERFORMANCE CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-4.2 (5)(6) & 6-4.3 (5) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall demonstrate the ability to record the use, repair, and testing of chemical-protective clothing according to manufacturer's specifications and recommendations. Describe the maintenance testing, inspection, and storage procedures for PPE. Identify the maintenance and inspection procedures for the tools and equipment provided for the control of hazardous materials released according to the manufacturer's specifications and recommendations.
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**PERFORMANCE OUTCOME:** Properly record the use, repair and testing of chemical protective clothing. Describe the maintenance testing, inspection & storage of PPE. Correctly identify the maintenance and inspection procedures for the tools and equipment provided.

**CONDITIONS:** Given PPE, Tools, and equipment

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Chemical Protective Clothing 6.4.2 (5)				
	a) Suit cleaned 6.4.2 (5)				
	b) Suit dried 6.4.2 (5)				
	c) Suit examined for punctures, tears, and worn areas 6.4.2 (5) 6.4.2				
	d) Suit repaired as required 6.4.2 (5)				
	e) Suit use recorded on applicable forms 6.4.2 (5)				
2.	Tools and Equipment				
	a) Inventory all tools used at the scene 6.4.3 (5)				
	b) Inspect tools for damage 6.4.3 (5)				
	c) Cleaned and repaired tools, as required 6.4.3 (5)				
	d) Inventory tools being stored 6.4.3 (5)				
	e) Replace tools to original location 6.4.3 (5)				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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**Proctor/Supervisor (Print & Sign)**                      **Date**                      **Candidate**                      **Date**

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**Re-Test Proctor/Supervisor**                      **Date**                      **Re-Test Candidate**                      **Date**



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.4 IMPLEMENTING THE PLANNED RESPONSE

#### 6.4.2 USING PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION

**JPR - HMT #5b**  
Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-4.2 (5) #2 NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall demonstrate the ability to record the use, repair, and testing of chemical protective clothing according to manufacturer's specifications and recommendations.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall correctly record the use, repair and testing of chemical protective clothing.					
<b>CONDITIONS:</b> Given manufacturer's operating instructions, local emergency response plans, and standard operating procedures.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Record the Use of Chemical Protective Clothing				
2.	Record the Repair of Chemical Protective Clothing				
3.	Record the Testing of Chemical Protective Clothing				
	Noted clothing or equipment item identification number				
	Noted date of inspection				
	Noted person making inspection				
	Documented results of inspection				
	Documented unusual conditions				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.4 IMPLEMENTING THE PLANNED RESPONSE

**JPR – HMT #5c**

### 6.4.3 PERFORMING CONTROL FUNCTION IDENTIFIED IN PLAN OF ACTION

Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-4.3 (5) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall identify the maintenance and inspection procedures for the tools and equipment provided for the control of hazardous materials releases according to the manufacturer's specifications and recommendations.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall correctly identify maintenance and inspection procedures for tools & equipment selected.					
<b>CONDITIONS:</b> Given tools/equipment for control of hazardous materials releases.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify proper maintenance procedures for tools/equipment provided according to manufacturer				
2.	Identify appropriate inspection procedures according to manufacturer for tools and equipment provided according to manufacturer's specifications and recommendation				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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**Proctor/Supervisor (Print & Sign)**                      **Date**                      **Candidate**                      **Date**

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**Re-Test Proctor/Supervisor**                      **Date**                      **Re-Test Candidate**                      **Date**



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.3 PLANNING RESPONSE

#### 6.3.5 DEVELOPING A PLAN OF ACTION

**JPR - HMT #6**  
Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-3.5 (C) NFPA 472 2002 Edition	<b>TASK:</b> Develop a plan of action to include safety considerations and points that should be made in a safety briefing
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**PERFORMANCE OUTCOME:** The candidate shall be able to develop and describe a site safety plan.

**CONDITIONS:** Given a simulated hazardous materials incident, local emergency response plan, standard operating procedures, and a *Hazardous Materials Response Handbook*.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Analysis of hazards on the site and a risk analysis of those hazards				
2.	Develop and describe site map or sketch				
3.	Develop and describe site work (control) zones				
4.	Describe use of buddy system				
5.	Describe site communications				
6.	Develop and describe command post				
7.	Follow standard operating procedures and safe work practices				
8.	Develop and describe medical assistance and triage				
9.	Develop and describe hazard monitoring plan				
10.	Develop and describe decontamination procedures				
11.	Correctly identify points for safety briefing				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN NFPA 472, 2002 Edition

## 6.3 PLANNING RESPONSE 6.3.5 DEVELOPING A PLAN OF ACTION

**JPR – HMT #7**  
Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-3.5 (F) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall identify the procedures, equipment, and safety precautions for collecting legal evidence at hazardous materials incidents.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall correctly identify procedures, equipment and safety precautions					
<b>CONDITIONS:</b> Given local emergency response plans, standard operating procedures, and a <i>Hazardous Materials Response Handbook</i> .					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Evidence properly collected and documented on the evidence collection form				
2.	Hazardous materials stored in proper containers				
3.	Proper PPE worn during collection process				
4.	Maintained chain of custody while turning over evidence				
5.	Equipment used properly: camera, quick-slitter, liquid/biological/air sampling packages				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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**Proctor/Supervisor (Print & Sign)**                      **Date**                      **Candidate**                      **Date**

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**Re-Test Proctor/Supervisor**                      **Date**                      **Re-Test Candidate**                      **Date**



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.6 TERMINATING THE INCIDENT

#### 6.6.3 PROVIDING REPORTS AND DOCUMENTATION

**JPR - HMT #8a**  
Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-6.3(1)(2) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall demonstrate the proper completion of reports required by the local emergency response plan and the organization's standard operating procedures.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall properly complete reports according to the local emergency response plan and the organization's standard operating procedures.					
<b>CONDITIONS:</b> Given the <i>Hazardous Materials Response Handbook</i> , local emergency response plan, and standard operating procedures or written incident management system.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Properly complete required reports according to response plan				
2.	Complete reports according to standard operating procedures				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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**Proctor/Supervisor (Print & Sign)**                      **Date**                      **Candidate**                      **Date**

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**Re-Test Proctor/Supervisor**                      **Date**                      **Re-Test Candidate**                      **Date**



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.6 TERMINATING THE INCIDENT

#### 6.6.3 PROVIDING REPORTS AND DOCUMENTATION

**JPR - HMT #8b**  
Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-6.3 NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall identify the steps to be taken in compiling incident reports that meet federal, provincial, and local agencies and organizational requirements and describe the importance of documentation for a hazardous materials incident, including exposure records, debriefing records, and critique reports.				
<b>PERFORMANCE OUTCOME:</b> Describe steps in completing incident reports that meet requirements of federal, provincial and local agency's and determine the importance of documentation for exposure, debriefing, critiquing.					
<b>CONDITIONS:</b> Given the <i>Hazardous Materials Response Handbook</i> , local emergency response plan, and standard operating procedures or written incident management system.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Reporting Requirements – Describe steps to be taken in compiling incident reports to meet:				
	a) Federal agency requirements				
	b) Provincial agency requirements				
	c) Local agency requirements				
	d) Organization requirements				
2.	Importance of Documentation				
	a) Exposure records				
	b) Debriefing records				
	c) Critique reports				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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

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**Date**

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**Re-Test Proctor/Supervisor**

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**Re-Test Candidate**

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**Date**





# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.6 TERMINATING THE INCIDENT

#### 6.6.3 PROVIDING REPORTS AND DOCUMENTATION

**JPR - HMT #8d**  
Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-6.3(1)(10) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall identify the requirements for filing documents and maintaining records as defined in the local emergency response plan and the organization's standard operating procedures.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall correctly identify requirements for filing documents & maintaining records					
<b>CONDITIONS:</b> Given the <i>Hazardous Materials Response Handbook</i> , local emergency response plan, and standard operating procedures or written incident management system.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the Requirements for:				
	a) Filing documents according to policies/procedures and emergency response plan				
	b) Maintaining records according to policies/procedures and emergency response plan				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.6 TERMINATING THE INCIDENT

#### 6.6.3 PROVIDING REPORTS AND DOCUMENTATION

**JPR - HMT #8e**  
Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-6.3(6) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall identify the steps in keeping an activity log and exposure records for hazardous materials incidents.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall correctly identify steps for activity logs and exposure records					
<b>CONDITIONS:</b> Given the <i>Hazardous Materials Response Handbook</i> , local emergency response plan, and standard operating procedures or written incident management system.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the Steps in Keeping:				
	a) An activity log according to local emergency response plan and policies & procedures				
	b) Exposure records according to local emergency response plan and policies & procedures				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.3 PLANNING THE RESPONSE

#### 6.3.3 SELECTING PERSONAL PROTECTIVE EQUIPMENT

**JPR – HMT #9**  
Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-3.3.3 E NFPA 472 2002 Edition	<b>TASK:</b> Determine and select the appropriate personal protective equipment to be utilized for a given action using chemical compatibility charts.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall determine compatibility and break through time of materials given					
<b>CONDITIONS:</b> Given three names of hazardous materials and chemical compatibility charts.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Material 1				
	a) Compatibility				
	b) Breakthrough time				
2.	Material 2				
	a) Compatibility				
	b) Breakthrough time				
3.	Material 3				
	a) Compatibility				
	a) Breakthrough time				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

### 6.5 EVALUATING PROGRESS

**JPR - HMT #10**

#### 6.5.1 EVALUATING THE EFFECTIVENESS OF CONTROL FUNCTIONS

Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6-5.1 NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall evaluate the effectiveness of any control functions identified in the plan of action and implemented.
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**PERFORMANCE OUTCOME:** The candidate shall correctly evaluate the incident given.

**CONDITIONS:** Given various simulated facility and transportation hazardous materials incidents involving non-bulk and bulk packaging, the plan of action, and the *Hazardous Materials Response Handbook*.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Candidate determines if the situation/incident is:				
	a) Getting worse				
	b) Stabilizing				
	c) Remaining the same				

**Proctor/Supervisor Comments:** \_\_\_\_\_

<b>Proctor/Supervisor (Print &amp; Sign)</b>	<b>Date</b>	<b>Candidate</b>	<b>Date</b>
<b>Re-Test Proctor/Supervisor</b>	<b>Date</b>	<b>Re-Test Candidate</b>	<b>Date</b>



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

**6.2 ANALYZING THE INCIDENT**  
**6.2.2 COLLECTING AND INTERPRETING HAZARD AND RESPONSE INFORMATION**

**JPR - HMT #11**  
 Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6.2.2 (D) NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall identify the signs and symptoms of exposure to each material and the target organ effects of exposure to that material.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall correctly identify signs and symptoms of exposure					
<b>CONDITIONS:</b> Given five hazardous material scenarios and appropriate reference materials.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Scenario 1				
	a) Identify signs and symptoms of exposure				
	b) Identify target organ effects				
2.	Scenario 2				
	a) Identify signs and symptoms of exposure				
	b) Identify target organ effects				
3.	Scenario 3				
	a) Identify signs and symptoms of exposure				
	b) Identify target organ effects				
4.	Scenario 4				
	a) Identify signs and symptoms of exposure				
	b) Identify target organ effects				
5.	Scenario 5				
	a) Identify signs and symptoms of exposure				
	b) Identify target organ effects				

**Proctor/Supervisor Comments:** \_\_\_\_\_

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Proctor/Supervisor (Print & Sign)	Date	Candidate	Date
Re-Test Proctor/Supervisor	Date	Re-Test Candidate	Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2002 Edition

**6.2 ANALYZING THE INCIDENT**  
**6.2.2 COLLECTING AND INTERPRETING HAZARD AND RESPONSE INFORMATION**

**JPR - HMT #12**  
 Revised 6/22/2006

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

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

**Student#:** \_\_\_\_\_

<b>STANDARD:</b> 6.2.5.1 NFPA 472 2002 Edition	<b>TASK:</b> The candidate shall identify available local resources designed to provide plume dispersion/concentration information.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall correctly identify plume dispersion/concentration information available from various sources of assistance.					
<b>CONDITIONS:</b> Given a scenario involving the release of a gas/vapor, the candidate shall					
<b>No.</b>	<b>TASK STEPS</b>	<b>FIRST TEST</b>		<b>RETEST</b>	
		<b>Pass</b>	<b>Fail</b>	<b>Pass</b>	<b>Fail</b>
1.	Candidate identifies:				
	a) written resources available with information				
	b) computer based resources available information				
	c) personnel resources available information				
<b>RETEST APPROVED BY:</b>		<b>RETEST EVALUATOR:</b>			

**Evaluator/Candidate Comments:** \_\_\_\_\_

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Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Evaluator	Date	Re-Test Candidate	Date