

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

JPR #	Task	Initial Certification Requirement: 6 Mandatory 3 Random Renewal JPR Requirement: 100% of All JPRs <i>(Including all subsections)</i>
1a	Chlorine "A" Kit	Mandatory, with random selection of 1a, 1b, 1c, or 1d
1b	Chlorine "B" Kit	Mandatory, with random selection of 1a, 1b, 1c, or 1d
1c	Chlorine "C" Kit	Mandatory, with random selection of 1a, 1b, 1c, or 1d
1d	Drum Overpack	Mandatory, with random selection of 1a, 1b, 1c, or 1d
2a	Decon Set-up	Mandatory
2b	Technical Decon Support for Entry	Mandatory, with random selection of 2b, 2c, or 2d
2c	Technical Decon for Ambulatory/Non-Ambulatory	Mandatory, with random selection of 2b, 2c, or 2d
2d	Mass Decon	Mandatory, with random selection of 2b, 2c, or 2d
3a	Donning and Working In Level A	Mandatory
3b	Donning and Working In Level B	Required for recertification only
3c	Donning and Working In Level C	Required for recertification only

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

JPR #	Task	Initial Certification Requirement: 6 Mandatory 3 Random  Renewal JPR Requirement: 100% of All JPRs <i>(Including all subsections)</i>
4a	Sample Selection	Mandatory, with random selection of 4a, 4b, or 4c
4b	Product Classification	Mandatory, with random selection of 4a, 4b, or 4c
4c	Field Calibration	Mandatory, with random selection of 4a, 4b, or 4c
5	Record use, repair and testing of PPE and tools	Random
6	Develop Sight Safety Plan	Random
7	Documentation	Random
8	Selecting PPE	Random
9a	Signs and Symptoms of Exposure	Random
9b	Dispersion Pattern Resources	Random
10	Implement and Evaluate the Planned Response	Random
11	MC-306 Dome Clamp	Mandatory



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

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

**JPR #1a**  
Revised 12/28/09

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

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

<b>STANDARD:</b> 7.4.3 (1) a-h, (2)a-c NFPA 472, 2008 Edition		<b>TASK–</b> The candidate shall select the appropriate material or equipment and demonstrate a method(s) to contain leaks from the following locations: (a) fusible 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. – 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.			
<b>PERFORMANCE OUTCOME:</b> The candidate shall correctly select materials and equipment and locate and contain leaks.					
<b>CONDITIONS:</b> Given Chlorine "A" kit, Level "A" PPE, and Pressurized 150 lb. Chlorine training cylinder, control leaks coming from orifices, opening, and valuing.					
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 plug				
10.	Fusible plug threads				
11.	Valve stem assembly blow-out				
12.	Tighten loose plugs				
13.	Side wall of cylinder				
14.	Replace missing plugs				
15.	Properly install the hood , if necessary				

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

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.4.3 IMPLEMENTING THE PLANNED RESPONSE

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

**JPR #1b**

Revised 12/28/09

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

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

<b>STANDARD:</b> 7.4.3 (1) a-h, (2)a-c NFPA 472, 2008 Edition		<b>TASK:</b> Given a pressure vessel, select the appropriate material or equipment and demonstrate a method(s) to contain leaks from the following locations: (a) fusible 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. The candidate shall demonstrate the ability to perform the following: (a) close valves that are open.			
<b>PERFORMANCE OUTCOME:</b> 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.					
<b>CONDITIONS:</b> 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 plug				
12.	Side wall of cylinder				
13.	Properly install the hood , if necessary				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.4.3 IMPLEMENTING THE PLANNED RESPONSE PERFORMANCE CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

**JPR #1c**  
Revised 12/28/09

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

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

<b>STANDARD:</b> 7.4.3 (2) a-c NFPA 472, 2008 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				
8.	Properly install the hood , if necessary				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.4.3 IMPLEMENTING THE PLANNED RESPONSE PERFORMANCE CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

**JPR #1d**

Revised 12/28/09

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

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

<b>STANDARD:</b> 7.4.3 (3) a-d (4) a-c NFPA 472, 2008 Edition		<b>TASK:</b> - 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. 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				
	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				
	a) Contained leak by application of putty, lead wool, or other appropriate material				
	b) Turned drum over so the leaking chime is upright c) Rolled drum over to a position that causes leaking product to cease				
3.	Contain a 55-Gallon Drum Nail Puncture Leak				
	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				
	a) Slide-in				
	b) Rolling slide-in c) Slip-over				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.4.5 IMPLEMENTING THE PLANNED RESPONSE PERFORMING INCIDENT MANAGEMENT DUTIES

**JPR #2a**  
Revised 12/28/09

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

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

<b>STANDARD:</b> 7.4.5 (1)(2)(3) NFPA 472, 2008 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/Evaluator Comments:** \_\_\_\_\_

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**Re-Test Proctor/Evaluator** (Print & Sign)

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.4.2 IMPLEMENTING THE PLANNED RESPONSE USING PROTECTIVE CLOTHING AND PERFORMING CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

JPR #2b

Revised 12/29/2009

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

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

<b>STANDARD:</b> 7.4.5 (1)(2)(3) NFPA 472, 2008 Edition		<b>TASK:</b> The candidate shall demonstrate the decontamination process specified in the planned response and he will identify a source of technical information for selecting decontamination procedures and identify how to contact those sources in an emergency.			
<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 technical decontamination operations in support of entry operations.					
<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/Evaluator Comments: \_\_\_\_\_

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.4.2 IMPLEMENTING THE PLANNED RESPONSE USING PROTECTIVE CLOTHING AND PERFORMING CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

JPR #2c

Revised 12/29/2009

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

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

<b>STANDARD:</b> 7.4.5 (2) NFPA 472, 2008 Edition		<b>TASK:</b> The candidate shall demonstrate the decontamination process specified in the planned response and he will identify a source of technical information for selecting decontamination procedures and identify how to contact those sources in an emergency.			
<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 technical decontamination operations involving ambulatory and nonambulatory victims 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				
	c.) Establish and utilize three technical sources for tactical Decontamination				
2.	The following decontamination steps must be accomplished in the order listed:				
	a) Direct ambulatory victims to enter decontamination area and drop belongings				
	b) Perform gross decontamination to remove as much contamination as possible				
	c) Remove clothing				
	d) Personal shower				
	e) Clothing replacement				
	f) Medical evaluation				
	i) Ensure the area is properly prepared to accept contaminated nonambulatory patients.				
	j) Move nonambulatory victims through corridor				
	k) Transfer for 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/Evaluator Comments: \_\_\_\_\_

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.4.2 IMPLEMENTING THE PLANNED RESPONSE USING PROTECTIVE CLOTHING AND PERFORMING CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

JPR #2d

Revised 12/29/2009

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

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

<b>STANDARD:</b> 7.4.5 (3) NFPA 472, 2008 Edition		<b>TASK:</b> The candidate shall demonstrate the decontamination process specified in the planned response and he will identify a source of technical information for selecting decontamination procedures and identify how to contact those sources in an emergency.			
<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 mass decontamination operations involving ambulatory and nonambulatory victims in the given plan.					
<b>CONDITIONS:</b> Water supply, decontamination supplies and equipment, local decontamination plan, and a source of technical information for selecting decontamination procedures.					
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				
	c.) Establish and utilize three technical sources for tactical Decontamination				
2.	The following decontamination steps must be accomplished in the order listed:				
	a) Direct ambulatory victims to enter decontamination area and drop belongings				
	b) Direct victims through master stream set to function through low water pressure (30 - 50 PSI) deluge				
	e) Direct removal of personal clothing if deemed necessary				
	g) Clothing replacement				
	h) Medical evaluation				
	i) Ensure the area is properly prepared to accept contaminated nonambulatory patients.				
	j) Move nonambulatory victims through master stream set to function through low water pressure (30 - 50 PSI) deluge				
k) Transfer for 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/Evaluator Comments:** \_\_\_\_\_  
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**Proctor/Evaluator** (Print & Sign)      **Date**      **Candidate**      **Date**

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.4.2 IMPLEMENTING THE PLANNED RESPONSE USING PROTECTIVE CLOTHING AND PERFORMING CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

JPR #3a

Revised 11/1/2009

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

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

<b>STANDARD:</b> 7.4.2 (3)(4) NFPA 472, 2008 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					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Inspect Vapor-Protective Clothing and SCBA				
	a) Inspect SCBA				
	b) Inspect suit for:				
	• Tears				
	• Holes				
	• Discoloration				
	• Seams/stitches				
	• Boot and glove attachments				
	• Suit integrity				
• Other items as identified by the manufacturer					
2.	Don Vapor-Protective Clothing and SCBA				
	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				
4.	Doff Vapor-Protective Clothing and SCBA according to authority having jurisdiction				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.4.2 IMPLEMENTING THE PLANNED RESPONSE USING PROTECTIVE CLOTHING AND PERFORMING CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

**JPR #3b**

Revised 11/1/2009

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

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

<b>STANDARD:</b> 7.4.2(3)(4) NFPA 472, 2008 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					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Inspect Splash-Protective Clothing and SCBA or SABA				
	a) Inspect SCBA or SABA				
	b) Inspect suit for:				
	• Tears				
	• Holes				
	• Discoloration				
	• Seams/stitches				
	• Boot and glove attachments (if present)				
	• Suit integrity				
• Other items as identified by the manufacturer					
2.	Don Splash-Protective Clothing and SCBA or SABA				
	a) Adjust head piece or hat				
	b) While seated, place feet into suit and gather the suit around waist				
	c) Don Chemical boots				
	d) Put on inner gloves, if required				
	e) Place arms into sleeve				
	f) Ensure zippers/closures are securely fastened				
g) Don SCBA or SABA (assistance authorized), make connections, and breathe air, when applicable, on SCBA or SABA and suit type					
3.	Work in Splash-Protective Clothing and SCBA or SABA provided by the authority having jurisdiction				
4.	Doff Splash-Protective Clothing and SCBA or SABA according to authority having jurisdiction				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.4.2 IMPLEMENTING THE PLANNED RESPONSE USING PROTECTIVE CLOTHING AND PERFORMING CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION

**JPR #3c**  
Revised 12/29/2009

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

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

<b>STANDARD:</b> 7.4.2(3)(4) NFPA 472, 2008 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					
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 below 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				
	a) Inspect APR/PAPR				
	b) Inspect suit for:				
	• Tears				
	• Holes				
	• Discoloration				
	• Seams/stitches				
	• Boot and glove attachments (if present)				
	• Suit integrity				
• Other items as identified by the manufacturer					
3.	Don Splash-Protective Clothing				
	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 APR/PAPR (assistance authorized), make connections, and breathe air, when applicable, on APR/PAPR and suit type				
	e) Put on inner gloves, if required				
	f) Place arms into sleeve				

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

**Proctor/Evaluator Comments:** \_\_\_\_\_  
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<b>Proctor/Evaluator</b> (Print & Sign)	<b>Date</b>	<b>Candidate</b>	<b>Date</b>
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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

7.2 ANALYZING THE INCIDENT

JPR #4a

7.3 SURVEYING THE HAZARDOUS MATERIAL INCIDENT

Revised 11/1/2009

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

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

<b>STANDARD:</b> 7.2.1.5 (1)(2)(3), 7.3.5.5 NFPA 472, 2008 Edition	<b>TASK:</b> The candidate shall identify the procedures, equipment, and safety precautions for collecting legal evidence at hazardous materials incidents. The candidate shall demonstrate a method for collecting a sample of a liquid, solid, and gas material.
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**PERFORMANCE OUTCOME:** The candidate shall properly handle, secure, and mark samples given.

**CONDITIONS:** The candidate shall be given appropriate PPE and manufacturer's operating instructions for sampling equipment provided by the authority having jurisdiction.

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Collection of Samples – Material 1 (Solid)				
	a) Proper PPE worn during collection process				
	b) Select and use appropriate equipment, and containers				
	c) Used proper technique				
2.	Collection of Samples – Material 2 (Liquid)				
	a) Proper PPE worn during collection process				
	b) Select and use appropriate equipment, and containers				
	c) Used proper technique				
3.	Collection of Samples – Material 3 (Gas)				
	a) Proper PPE worn during collection process				
	b) Select and use appropriate equipment, and containers				
	c) Used proper technique				
4.	Samples properly handled, secured, marked and documented on evidence collection form.				
5.	Maintain chain of custody while turning over evidence				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.2 ANALYZING THE INCIDENT SURVEYING THE HAZARDOUS MATERIAL INCIDENT

**JPR #4b**

Revised 12/29/2009

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

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

<p><b>STANDARD: 7.2.1.3.5 (1)(2)(3)</b> NFPA 472, 2008 Edition</p>	<p><b>TASK:</b> Given three hazardous materials/WMD—one of which is a solid, one a liquid, and one a gas, and using the following monitoring equipment, test strips, and reagents, the candidate shall select the appropriate equipment and demonstrate the proper techniques to identify the hazards (corrosivity, flammability, oxidation potential, oxygen deficiency, radioactivity, toxicity, and pathogenicity): (1) carbon monoxide meter; (2) colorimetric tubes; (3) combustible gas indicator; (4) oxygen meter; (5) passive dosimeters (6) ph indicators and/or ph meters; (7) photo ionization and flame ionization detectors (8) radiation detection instruments; (9) reagents; (10) test strips, (11) WMD detectors (chemical and biological);and (12) Other equipment provided by the AHJ.</p>
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**PERFORMANCE OUTCOME:** The candidate shall correctly classify and/or 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				
	d) Quantified (ph)				
3.	Material 3 (Gas)				
	a) Selected appropriate technique				
	b) Used proper technique				
	c) Classified or identified by hazard				
	d) Quantified (concentration in air)				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.2 ANALYZING THE INCIDENT SURVEYING THE HAZARDOUS MATERIAL INCIDENT

**JPR #4c**  
Revised 11/1/2009

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

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

<b>STANDARD:</b> 7.2.1.3.6 NFPA 472, 2008 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/or 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/Evaluator Comments:** \_\_\_\_\_

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

**7.4 IMPLEMENTING THE PLANNED RESPONSE**

**JPR #5**

**7.6 USING PROTECTIVE CLOTHING & RESPIRATORY PROTECTION**

Revised 11/1/2009

**PERFORMANCE CONTROL FUNCTIONS IDENTIFIED IN PLAN OF ACTION**

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

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

Standard: 7.4.3(5) 7.6.3(2) NFPA 472, 2008 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.				
<b>PERFORMANCE OUTCOME:</b> 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.					
<b>CONDITIONS:</b> Given PPE, tools, equipment and local/emergency response plans or standard operating procedures provided by the Authority Having Jurisdiction.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Chemical Protective Clothing				
	Identify proper maintenance procedures for CPC provided according to manufacturer				
	Identify appropriate inspection procedures according to manufacturer for CPC and equipment provided according to manufacturer's specifications and recommendation				
	a) Suit cleaned				
	b) Suit dried				
	c) Suit examined for punctures, tears, and worn areas				
	d) Suit repaired as required				
	e) Suit inspection results recorded on applicable forms				
	f) Suit stored properly				
2.	Tools and Equipment				
	Identify proper maintenance procedures for tools/equipment provided according to manufacturer				
	Identify appropriate inspection procedures according to manufacturer for tools and equipment provided according to manufacturer's specifications and recommendation				
	a) Inventory all tools used at the scene				
	b) Inspect tools for damage				
	c) Cleaned and repaired tools, as required				
	d) Inventory tools being stored				
	e) Replace tools to original location				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.6 PLANNING RESPONSE DEVELOPING A PLAN OF ACTION

**JPR #6**  
Revised 11/1/2009

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

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

<b>STANDARD:</b> 7.6.3(2), (3) NFPA 472, 2008 Edition		<b>TASK:</b> Collect, interpret, and develop a plan of action to include safety considerations and points that should be made in a safety briefing.			
<b>PERFORMANCE OUTCOME:</b> The candidate shall be able to collect, interpret, develop and describe response information and site safety plan.					
<b>CONDITIONS:</b> Given a simulated hazardous materials incident, local emergency response plan, standard operating procedures, computer data base, maps, diagrams, reference manuals, information centers, and technical specialists.					
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				
12.	Describe the importance of personnel exposure records.				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.6.3 TERMINATING THE INCIDENT PROVIDING REPORTS AND DOCUMENTATION

JPR #7

Revised 12/29/09

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

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

<b>STANDARD:</b> 7.6.3 (1)-(10) NFPA 472, 2008 Edition		<b>TASK:</b> Given a scenario involving a hazardous materials/WMD incident, the hazardous materials technician shall complete the reporting and documentation requirements consistent with the emergency response plan and standard operating procedures and shall meet the following requirements.			
<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 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 reports and supporting documentation required by the emergency response plan or standard operating procedures.				
2.	Demonstrate completion of the reports required by the emergency response plan or standard operating procedures.				
3.	Describe the importance of personnel exposure records.				
4.	Describe the importance of debriefing records.				
5.	Describe the importance of critique records.				
6.	Identify the steps in keeping an activity log and exposure records.				
7.	Identify the steps to be taken in compiling incident reports that meet federal, state, local, and organizational requirements.				
8.	Identify the requirements for compiling hot zone entry and exit logs.				
9.	Identify the requirements for compiling personal protective equipment logs.				
10.	Identify the requirements for filing documents and maintaining records.				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.3 PLANNING THE RESPONSE SELECTING PERSONAL PROTECTIVE EQUIPMENT

**JPR #8**

Revised 11/1/2009

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

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

<b>STANDARD:</b> 7.3.3.4.5, 7.3.3.4.6 NFPA 472, 2008 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) Compatible Yes <input type="checkbox"/> No <input type="checkbox"/>				
	b) Breakthrough time				
2.	Material 2				
	a) Compatible Yes <input type="checkbox"/> No <input type="checkbox"/>				
	b) Breakthrough time				
3.	Material 3				
	a) Compatible Yes <input type="checkbox"/> No <input type="checkbox"/>				
	b) Breakthrough time				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.2 ANALYZING THE INCIDENT COLLECTING AND INTERPRETING HAZARD AND RESPONSE INFORMATION

**JPR #9a**  
Revised 11/1/2009

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

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

<b>STANDARD:</b> 7.2.2.4 NFPA 472, 2008 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/Evaluator Comments:** \_\_\_\_\_  
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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

### 7.2 ANALYZING THE INCIDENT COLLECTING AND INTERPRETING HAZARD AND RESPONSE INFORMATION

**JPR #9b**  
Revised 11/1/2009

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

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

<b>STANDARD:</b> 7.2.5.1 NFPA 472, 2008 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 dispersion/concentration information available from various sources of assistance.					
<b>Conditions:</b> Given the Authority Having Jurisdiction's emergency response plan, the hazardous materials technician shall identify resources for dispersion pattern prediction and modeling, including computers, monitoring equipment, or specialists in the field.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Candidate identifies:				
	a) written resources available with information				
	b) computer based resources available information				
	c) personnel resources available information				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

7.2 ANALYZING THE INCIDENT  
7.5 EVALUATING PROGRESS

**JPR #10**  
Revised 12/29/2009

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

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

<b>STANDARD:</b> 7.1.2.2 (3) a,c, 7.5.1 NFPA 472, 2008 Edition		<b>TASK:</b> The candidate shall implement and evaluate the planned response to favorably change the outcomes consistent with the organization's standard operating procedures and site safety and control plan.			
<b>PERFORMANCE OUTCOME:</b> The candidate shall correctly perform control functions as assigned through the Incident Management System and evaluate effectiveness of those functions for the incident given.					
<b>CONDITIONS:</b> The candidate shall <u>use the assigned mandatory JPR #1</u> , standard operating procedures and site safety and control plan of the authority having jurisdiction.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Perform the duties of an assigned Hazardous materials branch or group position within the local incident management system (ICS) as indentified using the National Incident Management System (NIMS).				
	Site safety and control plan considerations				
	a) Site description				
	b) Entry objectives				
	c) On-site organization				
	d) On-site control				
	e) Hazard evaluation				
	f) Personal protective equipment				
	g) On-site work plans				
	h) Communication procedures				
	i) Decontamination procedures				
	j) Site safety and health plan				
2.	Perform the control functions identified in the incident action plan				
3.	Evaluate the effectiveness of the control functions identified in the plan of action				

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

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 472, 2008 Edition

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

**JPR #11**

Revised 11-1-2009

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

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

<b>STANDARD:</b> 7.4.3 (8),(9),(10)(a-d),(11) NFPA 472, 2008 Edition		<b>TASK:</b> The candidate shall demonstrate the ability to install a clamp on a dome of an MC-306/DOT 406 cargo tank and perform the following: (a) approach simulator in a safe manner; (b) identify precautions to be taken for fire control/ignition sources; (c) locate all leaks; (d) install dome clamp; and (e) evaluate effectiveness.			
<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 leaks on a MC-306/DOT406 training dome properly.					
<b>CONDITIONS:</b> Given bunker gear and SCBA, dome clamp, and a MC-306/DOT 406 training simulator.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify tank capacity by using markings or other resources				
2.	Identify precautions for fire control				
3.	Approach the simulator safely				
4.	Eliminate ignition sources				
5.	Locate leaking dome				
6.	Candidate secures dome and properly installs dome clamp				
7.	Identify methods and precautions if tanker is involved in fire				
8.	Evaluate the effectiveness of control functions.				

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

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