



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

JPR- HMT #1

### 11.2.2 Detection, Monitoring and Sampling

Created: March 12, 2024

### Perform Maintenance and Testing on Monitoring and Detection Equipment

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

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

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

<b>STANDARD:</b> 11.2.2 NFPA 470, 2022 Edition	<b>TASK:</b> Perform maintenance and testing on monitoring and detection equipment.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will perform maintenance and testing on monitoring and detection equipment, test strips and reagents in the field. The candidate must score <b>3 of 3 of steps</b> , to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"><li>• Personal protective equipment</li><li>• Report and documentation forms</li><li>• Equipment maintenance logs/forms</li><li>• Monitoring equipment, test strips and reagents</li><li>• AHJ SOPs</li><li>• Maintenance equipment such as calibration gases or other necessary items</li><li>• Manufacturer's operator's manuals</li></ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the device or item that requires testing or maintenance.				
2.	Perform testing and/or maintenance as identified in the manufacturer's instructions and AHJ SOPs.				
3.	Properly document maintenance or testing procedures.				

#### First Test:

Total points needed to pass: 3 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

#### Second Test:

Total points needed to pass: 3 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

Evaluator (Print & Sign)

Date

Candidate

Date

Re-Test Evaluator

Date

Re-Test Candidate

Date

Proctor/Candidate Comments:



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

JPR- HMT #2

### 11.2.2, 11.2.5, 11.3.4 Detection, Monitoring and Sampling, Action Plan Development

Created: March 12, 2024

### Collect Samples of Solid, Liquid and Gaseous Hazardous Materials

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

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

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

<b>STANDARD:</b> 11.2.2, 11.2.5, 11.3.4 NFPA 470, 2022 Edition	<b>TASK:</b> Collect samples of solid, liquid and gaseous hazardous materials.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will collect samples of solid, liquid and gaseous hazardous materials in the field. The candidate must score a minimum <b>6 out of 8 of steps for each section</b> , including any items marked <b>MUST PASS</b> , to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 33%;">• Personal protective equipment</li> <li style="width: 33%;">• AHJ SOPs</li> <li style="width: 33%;">• pH indicators and pH meters</li> <li style="width: 33%;">• Carbon monoxide meter</li> <li style="width: 33%;">• Materials to be sampled (solid, liquid, gaseous)</li> <li style="width: 33%;">• Photoionization detectors</li> <li style="width: 33%;">• Colorimetric Tubes</li> <li style="width: 33%;">• Oxygen meter</li> <li style="width: 33%;">• Pipettes, vials, jars, etc.</li> <li style="width: 33%;">• LEL Meter</li> <li style="width: 33%;">• Passive dosimeters</li> <li style="width: 33%;">• Radiation detection instruments</li> <li style="width: 33%;">• Reagents</li> <li style="width: 33%;">• Report and documentation forms</li> <li style="width: 33%;">• Test strips</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
<b>Solid</b>					
1.	Ensure appropriate detection, monitoring or sampling method and equipment is selected. <b>MUST PASS</b>				
2.	Ensure that all responders are wearing the required PPE based on the material being sampled. <b>MUST PASS</b>				
3.	Collect sample of a solid material. <b>MUST PASS</b>				
4.	Test the substance using the instrument(s) provided by the AHJ. <b>MUST PASS</b>				
5.	Read, interpret and report the results of the test. <b>MUST PASS</b>				
6.	Dispose of sample in accordance with appropriate regulations.				
7.	Decontaminate equipment and return to operational state as per the manufacturer's Recommendations.				
8.	Complete required reports and supporting documentation.				
<b>Liquid</b>					
1.	Ensure appropriate detection, monitoring or sampling method and equipment is selected. <b>MUST PASS</b>				
2.	Ensure that all responders are wearing appropriate PPE. <b>MUST PASS</b>				
3.	Collect sample of a liquid material. <b>MUST PASS</b>				
4.	Test the substance using the instrument(s) provided by the AHJ. <b>MUST PASS</b>				
5.	Read, interpret and report the results of the test. <b>MUST PASS</b>				
6.	Dispose of sample in accordance with appropriate regulations.				



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7.	Decontaminate equipment and return to operational state as per the manufacturer's Recommendations.				
8.	Complete required reports and supporting documentation.				
<b>GAS</b>					
1.	Ensure appropriate detection, monitoring or sampling method and equipment is selected. <b>MUST PASS</b>				
2.	Ensure that all responders are wearing appropriate PPE. <b>MUST PASS</b>				
3.	Collect sample of a gaseous material. <b>MUST PASS</b>				
4.	Test the substance using the instrument(s) provided by the AHJ. <b>MUST PASS</b>				
5.	Read, interpret and report the results of the test. <b>MUST PASS</b>				
6.	Dispose of sample in accordance with appropriate regulations.				
7.	Decontaminate equipment and return to operational state as per the manufacturer's recommendations.				
8.	Complete required reports and supporting documentation.				

**Solid**

**First Test:**

Total points needed to pass: 6 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: 6 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

Evaluator (Print & Sign)

Date

Candidate

Date

Re-Test Evaluator

Date

Re-Test Candidate

Date

**Liquid**

**First Test:**

Total points needed to pass: 6 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: 6 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

Evaluator (Print & Sign)

Date

Candidate

Date

Re-Test Evaluator

Date

Re-Test Candidate

Date



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

### Gas

#### First Test:

Total points needed to pass: 6 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

#### Second Test:

Total points needed to pass: 6 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)

Date

Candidate

Date

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Re-Test Evaluator

Date

Re-Test Candidate

Date

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

JPR- HMT #3

### 11.2.2 Detection, Monitoring and Sampling

Created: March 12, 2024

#### Collect Samples of a Hazardous Material for Public Safety and/or Evidence

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

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

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

<b>STANDARD:</b> 11.2.2 NFPA 470, 2022 Edition		<b>TASK:</b> Collect samples of a hazardous material for public safety and/or evidence.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.			
<b>PERFORMANCE OUTCOME:</b> The candidate will collect samples of a hazardous material for public safety and/or evidence in the field. The candidate must score a <b>minimum 3 out of 5 steps for Public Safety Sampling</b> , including any items marked <b>MUST PASS</b> and must score a <b>minimum 7 out of 10 steps for Evidence Preservation</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>• Personal protective equipment</li> <li>• Evidence collection plan</li> <li>• Public safety sampling plan</li> <li>• AHJ SOPs</li> <li>• Chain of custody documentation materials</li> <li>• Material(s) to be sampled or collected</li> <li>• Report and documentation forms</li> <li>• Sampling kits for solids, liquid and gases</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
<b>Public Safety Sampling</b>					
1.	Utilize appropriate public safety sampling plan according to AHJ and LRN.				
2.	Determine PPE required for public safety sampling. <b>MUST PASS</b>				
3.	Ensure any materials and equipment used for collection are certified "clean" or "sterile" and kept sealed until used. <b>MUST PASS</b>				
4.	Collect public safety samples. <b>MUST PASS</b>				
5.	Complete required reports and supporting documentation.				
<b>Evidence Preservation</b>					
1.	Utilize appropriate public safety sampling plan according to AHJ and LRN.				
2.	Ensure control container for sample is collected prior to evidence collection. <b>MUST PASS</b>				
3.	Determine PPE required for evidence collection and preservation. <b>MUST PASS</b>				
4.	Ensure any materials and equipment used for evidence collection are certified "clean" or "sterile" and kept sealed until used. <b>MUST PASS</b>				
5.	Collect evidence. <b>MUST PASS</b>				
6.	Document all preservation actions.				
7.	Appropriately package evidence. <b>MUST PASS</b>				
8.	Document chain-of-custody.				
9.	Take evidence to decontamination.				
10.	Complete required reports and any supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN

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### Public Safety Sampling

#### **First Test:**

Total points needed to pass: 3 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

#### **Second Test:**

Total points needed to pass: 3 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

### Evidence Preservation

#### **First Test:**

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

#### **Second Test:**

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

#### **Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

JPR- HMT #4

### 11.2.2 Detection, Monitoring and Sampling

Created: March 12, 2024

#### Demonstrate Use of a Multi-Sensor Instrument

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

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

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

<b>STANDARD:</b> 11.2.2 NFPA 470, 2022 Edition	<b>TASK:</b> Demonstrate the use of a multi-sensor instrument.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will demonstrate the ability to use of a multi-gas meter in the field. The candidate must score <b>8 out of 11 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>Personal protective equipment</li> <li>Report and documentation forms</li> <li>AHJ SOPs</li> <li>Calibration and/or bump gas</li> </ul> <ul style="list-style-type: none"> <li>Cleaning supplies recommended by manufacturer</li> <li>Product to be tested</li> <li>Manufacturer's operator's manual</li> <li>Multi-sensor instrument</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Ensure proper detection, monitoring or sampling method and equipment is chosen. <b>MUST PASS</b>				
2.	Ensure that all responders are wearing the required PPE based on the material being sampled. <b>MUST PASS</b>				
3.	Select the monitor and identify the gases it will detect. <b>MUST PASS</b>				
4.	Perform initial inspection to ensure meter is serviceable.				
5.	Perform a function check (bump test) to ensure the meter is functioning properly. <b>MUST PASS</b>				
6.	Perform a "fresh air" calibration if the environment is suitable.				
7.	Monitor the area as required.				
8.	Read, interpret and report the results . (Flammable/toxic gases, LEL and oxygen concentration) <b>MUST PASS</b>				
9.	When monitoring is complete, turn off the instrument.				
10.	Decontaminate equipment and return to operational state, as per the manufacturer's recommendations.				
11.	Complete required reports and supporting documentation.				



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**First Test:**

Total points needed to pass: 8 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: 8 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

**JPR- HMT #5**

### 11.2.2 Detection, Monitoring and Sampling

Created: March 12, 2024

#### Demonstrate Use of Colorimetric Tubes

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

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

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

<b>STANDARD:</b> 11.2.2 NFPA 470, 2022 Edition	<b>TASK:</b> Demonstrate the use of colorimetric tubes.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will demonstrate the ability to use colorimetric tubes in the field. The candidate must score <b>10 out of 14 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• Personal protective equipment</li> <li style="width: 50%;">• Container for disposal</li> <li style="width: 50%;">• Report and documentation forms</li> <li style="width: 50%;">• Product to be tested</li> <li style="width: 50%;">• AHJ SOPs</li> <li style="width: 50%;">• Manufacturer’s operator’s manual</li> <li style="width: 50%;">• Colorimetric indicator kit (pump, tubes,etc)</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Ensure proper detection, monitoring or sampling method and equipment is chosen. <b>MUST PASS</b>				
2.	Ensure that all responders are wearing the required PPE based on the material being sampled. <b>MUST PASS</b>				
3.	Use the manufacturer’s instruction manual to select the proper colorimetric tube for sampling and check expiration dates for the tube. <b>MUST PASS</b>				
4.	Determine the required number strokes (N=#)				
5.	Perform a function check (bump test) to check device to ensure correct operation. <b>MUST PASS</b>				
6.	Reset the counter.				
7.	Break both ends off of the tube(s) using the provided tube cutter.				
8.	Insert the tube into the hand pump in the proper air flow direction, with the arrow on the tube pointing in the direction of the air flow. <b>MUST PASS</b>				
9.	Hold the tip of the tube an appropriate distance away from the product or container opening, taking care not to come into contact with any solid or liquid product.				
10.	Sample the product based on the manufacturer’s instructions. <b>MUST PASS</b>				
11.	Remove the tube from the pump and read, interpret and record the results.				
12.	Dispose of sampling tube in accordance with appropriate regulations.				
13.	Decontaminate equipment and return to operational state.				
14.	Complete required reports and supporting documentation.				



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**First Test:**

Total points needed to pass: **10** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **10** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

**JPR- HMT #6**

### 11.2.2 Detection, Monitoring and Sampling

Created: March 12, 2024

#### Demonstrate Use of Reagent Test Paper

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

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

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

<b>STANDARD:</b> 11.2.2 NFPA 470, 2022 Edition	<b>TASK:</b> Demonstrate the use of reagent test paper.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will demonstrate the ability to use reagent test paper in the field. The candidate must score <b>8 out of 11 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• Personal protective equipment</li> <li style="width: 50%;">• Container for disposal</li> <li style="width: 50%;">• Report and documentation forms</li> <li style="width: 50%;">• Product(s) to be tested</li> <li style="width: 50%;">• AHJ SOPs</li> <li style="width: 50%;">• Manufacturer’s operator’s manual</li> <li style="width: 50%;">• Selection of reagent test papers</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
		<b>FIRST TEST</b>	<b>RETEST</b>		
<b>No.</b>	<b>TASK STEPS</b>	<b>Pass</b>	<b>Fail</b>	<b>Pass</b>	<b>Fail</b>
1.	Ensure proper detection, monitoring or sampling method and equipment is chosen. <b>MUST PASS</b>				
2.	Ensure that all responders are wearing the required PPE based on the material being sampled. <b>MUST PASS</b>				
3.	Select appropriate reagent paper and equipment. <b>MUST PASS</b>				
4.	Inspect the test paper to ensure that it has not been exposed or has expired. <b>MUST PASS</b>				
5.	Remove a piece of appropriate size reagent test paper.				
6.	Sample the product. <b>MUST PASS</b>				
7.	Identify any color changes to the reagent test paper and compare them with the provided reference. <b>MUST PASS</b>				
8.	Read, interpret and report the results.				
9.	Dispose of reagent paper.				
10.	Decontaminate equipment and return to operational state.				
11.	Complete required reports and supporting documentation.				



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**First Test:**

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

JPR- HMT #7

### 11.2.2 Detection, Monitoring and Sampling

Created: March 12, 2024

#### Demonstrate Use of Radiation Detection Instruments

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

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

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

<b>STANDARD:</b> 11.2.2 NFPA 470, 2022 Edition	<b>TASK:</b> Demonstrate the use of radiation detection equipment.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will demonstrate the ability to use radiation detection equipment in the field. The candidate must score <b>8 out of 11 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• Personal protective equipment</li> <li style="width: 50%;">• Product to be tested</li> <li style="width: 50%;">• Report and documentation forms</li> <li style="width: 50%;">• Manufacturer’s operator’s manual</li> <li style="width: 50%;">• AHJ SOPs</li> <li style="width: 50%;">• Radiation detection instrument</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Ensure proper detection, monitoring or sampling method and equipment is chosen. <b>MUST PASS</b>				
2.	Ensure that all responders are wearing the required PPE based on the material being sampled. <b>MUST PASS</b>				
3.	Turn on the meter and test detector against check source.				
4.	Acquire background radiation levels. <b>MUST PASS</b>				
5.	Monitor the area as required.				
6.	Determine the presence of ionizing radiation. <b>MUST PASS</b>				
7.	Compare radiation values to AHJ’s SOPs.				
8.	Read, interpret and report results.				
9.	Read out or analyze the instrument. <b>MUST PASS</b>				
10.	Decontaminate equipment and return to operational state.				
11.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN

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**First Test:**

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

JPR- HMT #8

### 11.2.2 Detection, Monitoring and Sampling

Created: March 12, 2024

#### Demonstrate Use of a Dosimeter to Identify Personal Dose Received

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

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

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

<b>STANDARD:</b> 11.2.2 NFPA 470, 2022 Edition	<b>TASK:</b> Demonstrate the use of a dosimeter to identify personal dose received.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will demonstrate the use of a dosimeter to identify personal dose received in the field. The candidate must score <b>10 out of 14 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• Personal protective equipment</li> <li style="width: 50%;">• Dosimeter</li> <li style="width: 50%;">• Report and documentation forms</li> <li style="width: 50%;">• Manufacturer’s operator’s manual</li> <li style="width: 50%;">• AHJ SOPs</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Ensure proper detection, monitoring or sampling method and equipment is chosen. <b>MUST PASS</b>				
2.	Ensure that all responders are wearing the required PPE based on the material being sampled. <b>MUST PASS</b>				
3.	Select appropriate dosimeter. <b>MUST PASS</b>				
4.	Perform initial inspection to ensure dosimeter is operational.				
5.	Ensure that the dosimeter has been maintained and appropriately calibrated. <b>MUST PASS</b>				
6.	Ensure that the dosimeter reads zero. <b>MUST PASS</b>				
7.	Don the dosimeter as per the manufacturer’s instructions.				
8.	Determine the radiation dose rates from radioactive material labels. <b>MUST PASS</b>				
9.	Perform mission activity.				
10.	Doff the dosimeter.				
11.	Read out or analyze dosimeter. <b>MUST PASS</b>				
12.	Record/ report results.				
13.	Decontaminate equipment and return to operational state.				
14.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **10** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **10** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

**JPR- HMT #9**

### 11.2.2 Detection, Monitoring and Sampling

Created: March 12, 2024

#### Demonstrate the Use of a Photoionization Detector

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

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

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

<b>STANDARD:</b> 11.2.2 NFPA 470, 2022 Edition	<b>TASK:</b> Demonstrate the use of a photoionization detector.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will demonstrate the use of a photoionization detector in the field. The candidate must score <b>7 out of 11 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• Personal protective equipment</li> <li style="width: 50%;">• Photoionization detector (PID)</li> <li style="width: 50%;">• Report and documentation forms</li> <li style="width: 50%;">• Product to be tested</li> <li style="width: 50%;">• Calibration and/or bump gas</li> <li style="width: 50%;">• Manufacturer’s operator’s manual</li> <li style="width: 50%;">• AHJ SOPs</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Ensure proper detection, monitoring or sampling method and equipment is chosen. <b>MUST PASS</b>				
2.	Ensure that all responders are wearing the required PPE based on the material being sampled. <b>MUST PASS</b>				
3.	Perform initial inspection to ensure detector is operational.				
4.	Perform function check (bump test) to ensure the detector is functioning properly. <b>MUST PASS</b>				
5.	Perform a “fresh air” calibration if environment is suitable.				
6.	Perform detection operations as required. <b>MUST PASS</b>				
7.	Identify correction factors and apply as necessary.				
8.	Read, interpret and report results.				
9.	When monitoring is complete, turn off the instrument.				
10.	Decontaminate equipment and return to operational state.				
11.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

JPR- HMT #10

### 11.2.2 Detection, Monitoring and Sampling

Created: March 12, 2024

#### Demonstrate the Use of a Non-Contact Thermal Detection Device

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

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

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

<b>STANDARD:</b> 11.2.2 NFPA 470, 2022 Edition		<b>TASK: Demonstrate the use of a non-contact thermal detection device.</b>  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.			
<b>PERFORMANCE OUTCOME:</b> The candidate will demonstrate the use of a non-contact thermal detection device in the field. The candidate must score <b>6 out of 9 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>• Personal protective equipment</li> <li>• Report and documentation forms</li> <li>• Heat source or other target</li> <li>• AHJ SOPs</li> <li>• Thermal detector</li> <li>• Manufacturer's operator's manual</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Ensure proper detection, monitoring or sampling method and equipment is chosen. <b>MUST PASS</b>				
2.	Ensure that all responders are wearing the required PPE based on the material being sampled. <b>MUST PASS</b>				
3.	Perform initial inspection to ensure detector is operational.				
4.	Insert appropriate batteries and turn on the thermal detector. Select Celsius or Fahrenheit if applicable. <b>MUST PASS</b>				
5.	Standing as close as safely possible, use the aiming laser to assess the target from the lowest point on the target and scan up slowly and methodically. <b>MUST PASS</b>				
6.	Read, interpret and report results.				
7.	When monitoring is complete, turn off the instrument.				
8.	Decontaminate equipment and return to operational state.				
9.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

### First Test:

Total points needed to pass: **6** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Second Test:

Total points needed to pass: **6** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

### Proctor/Candidate Comments:

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

### 11.2 Analyze the Incident

JPR- HMT #11

### 11.2.3 Assessing Container Condition

Created: March 12, 2024

### Evaluate the Condition of a Hazardous Materials Container

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

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

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

<b>STANDARD:</b> 11.2.3 NFPA 470, 2022 Edition		<b>TASK: Evaluate the condition of a hazardous materials container.</b>  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.			
<b>PERFORMANCE OUTCOME:</b> The candidate will evaluate the condition of a hazardous materials container in the field. The candidate must score <b>5 out of 8 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>• Personal protective equipment</li> <li>• AHJ SOPs</li> <li>• Approved resources</li> <li>• Container with required markings</li> <li>• Results of detection, monitoring and sampling</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine and select the appropriate PPE based on the hazardous material. <b>MUST PASS</b>				
2.	Inspect the container(s) and its closure(s).				
3.	Assess the condition of the container(s) and its closure(s), including types of damage and stress. <b>MUST PASS</b>				
4.	Identify the level of risk associated with the container(s) and closure(s) damage/stress. <b>MUST PASS</b>				
5.	Follow safety procedures.				
6.	Avoid/minimize hazards.				
7.	Decontaminate personnel, tools and equipment.				
8.	Communicate the condition of the container(s) and its closure(s) and the level of associated risk. <b>MUST PASS</b>				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

JPR- HMT #12

### 11.2.1, 11.2.4, 11.2.5 Hazard and Response Information, Predicting Behavior, Estimating Outcomes

Created: March 12, 2024

### Predict the Likely Effects of a Hazardous Materials Release

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

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

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

<b>STANDARD:</b> 11.2.1, 11.2.4, 11.2.5 NFPA 470, 2022 Edition	<b>TASK: Predict the likely effects of a hazardous materials release within an endangered area.</b>  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will predict the likely effects of a hazardous materials release within an endangered area. The candidate must score <b>9 out of 12 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• Personal protective equipment</li> <li style="width: 50%;">• Hazardous materials incident scenario</li> <li style="width: 50%;">• AHJ SOPs</li> <li style="width: 50%;">• Assignment in IAP</li> <li style="width: 50%;">• Approved resources</li> <li style="width: 50%;">• Container with required markings</li> <li style="width: 50%;">• Container with mixed materials</li> <li style="width: 50%;">• Results of detection, monitoring and sampling</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine and select appropriate PPE, based on the hazardous materials/WMD. <b>MUST PASS</b>				
2.	Inspect containers and their closures.				
3.	Assess condition of containers, closures and materials concentrations, including types of damage and stress. <b>MUST PASS</b>				
4.	Identify level of risk associated with the containers, closures damage/stress. <b>MUST PASS</b>				
5.	Identify the physical, health, safety hazards and concentrations of materials within the endangered area.				
6.	Identify the areas of potential harm in the endangered area.				
7.	Predict the likely behavior/ potential outcome of the materials using the general hazardous materials behavior model when multiple materials are involved. <b>MUST PASS</b>				
8.	Identify reactivity issues associated with multiple hazardous materials mixed together. <b>MUST PASS</b>				
9.	Follow safety procedures.				
10.	Avoid/minimize hazards.				
11.	Decontaminate personnel, tools and equipment.				
12.	Communicate condition of containers and their closures and predicted behavior/risk. <b>MUST PASS</b>				



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **9** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **9** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.2 Analyze the Incident

JPR- HMT #13

### 11.2.1, 11.2.5 Hazard and Response Information Collection, Estimating Outcomes

Created: March 12, 2024

### Use Approved Reference Resources to Interpret Hazard and Response Information

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

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

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

<b>STANDARD:</b> 11.2.1, 11.2.5 NFPA 470, 2022 Edition	<b>TASK:</b> Use approved reference resources to interpret hazard and response information.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will use approved reference resources to interpret hazard and response information within an endangered area. The candidate must score <b>5 out of 5 steps</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• Personal protective equipment</li> <li style="width: 50%;">• Approved tools and equipment</li> <li style="width: 50%;">• AHJ SOPs</li> <li style="width: 50%;">• Assignment in IAP</li> <li style="width: 50%;">• Approved reference sources</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
<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.	Collect hazard and response information.				
2.	Interpret hazard and response information using approved resources and equipment.				
3.	Identify signs and symptoms of exposures (including target organ effects) of hazardous materials/WMD.				
4.	Using container labels, determine the expected radiation dose rate from containers.				
5.	Communicate hazard/response information and potential outcomes.				

**First Test:**

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

Evaluator (Print & Sign)

Date

Candidate

Date

Re-Test Evaluator

Date

Re-Test Candidate

Date

**Proctor/Candidate Comments:**



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.3 Response Planning 11.3.1 Strategies and Tactics

**JPR- HMT #14**

Created: March 12, 2024

### Develop Strategies and Tactics for a Hazardous Materials/WMD Incident

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

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

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

<b>STANDARD:</b> 11.3.1 NFPA 470, 2022 Edition	<b>TASK:</b> Develop strategies and tactics for a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will develop strategies and tactics for a hazmat/WMD incident in the field. The candidate must score <b>3 out of 3 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>Personal protective equipment</li> <li>AHJ SOPs</li> <li>List of available resources</li> </ul> <ul style="list-style-type: none"> <li>Results of incident analysis</li> <li>Hazardous materials incident scenario</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
<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.	Identify or develop strategies for the hazardous materials/WMD incident.				
2.	Identify or develop tactics for each strategy.				
3.	Make recommendations for strategies and tactics to the Incident Commander or Hazardous Materials Officer.				

**First Test:**

Total points needed to pass: **3** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **3** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

Evaluator (Print & Sign)

Date

Candidate

Date

Re-Test Evaluator

Date

Re-Test Candidate

Date

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.3 Response Planning

**JPR- HMT #15**

### 11.3.2 Personal Protective Equipment (PPE) Selection

Created: March 12, 2024

#### Select PPE Appropriate to a Hazardous Materials/WMD Incident

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

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

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

<b>STANDARD:</b> 11.3.2 NFPA 470, 2022 Edition	<b>TASK:</b> Select PPE appropriate to a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will select PPE appropriate to a hazmat/WMD incident. The candidate must score <b>3 out of 3 steps</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• AHJ SOPs</li> <li style="width: 50%;">• Assignment in IAP</li> <li style="width: 50%;">• Approved resources</li> <li style="width: 50%;">• Hazmat scenario with known problem</li> <li style="width: 50%;">• Different types of PPE</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine hazards.				
2.	Determine the effectiveness of available personal protective clothing based on its uses and limitations.				
3.	Select appropriate PPE ensemble for the assignment based on the hazards identified.				

**First Test:**

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

Evaluator (Print & Sign)

Date

Candidate

Date

Re-Test Evaluator

Date

Re-Test Candidate

Date

**Proctor/Candidate Comments:**



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.3 Response Planning

JPR- HMT #16

### 11.3.4 Action Plan Development

Created: March 12, 2024

#### Develop a Site Safety and Control Plan for a Hazmat/WMD Incident at a Facility

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

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

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

<b>STANDARD:</b> 11.3.4 NFPA 470, 2022 Edition	<b>TASK:</b> Develop a site safety and control plan for a hazardous materials/WMD incident at a facility.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will develop a site safety and control plan for a hazardous materials/WMD incident at a facility. The candidate must score <b>8 out of 11 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• AHJ SOPs</li> <li style="width: 50%;">• Assignment in IAP</li> <li style="width: 50%;">• List of approved resources</li> <li style="width: 50%;">• Results from incident analysis</li> <li style="width: 50%;">• Hazmat scenario at a facility</li> <li style="width: 50%;">• Strategies and tactics for the scenario</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
	TASK STEPS	FIRST TEST		RETEST	
NO.		Pass	Fail	Pass	Fail
1.	Identify strategies.				
2.	Prepare an action plan. <b>MUST PASS</b>				
3.	Identify tactics, tasks and resources necessary to meet identified strategies. <b>MUST PASS</b>				
4.	Identify site and safety control components. <b>MUST PASS</b>				
5.	Identify points for a safety briefing.				
6.	Identify pre-entry tasks.				
7.	Identify atmospheric and physical safety hazards (when confined space is involved). <b>MUST PASS</b>				
8.	Ensure plan is consistent with emergency response plan and SOPs.				
9.	Ensure plan is within the capabilities of available resources, including personnel. <b>MUST PASS</b>				
10.	Preserve and collect legal evidence as per AHJ SOPs.				
11.	Complete required reports and document as required.				



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## First Test:

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

## Second Test:

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)

Date

Candidate

Date

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Re-Test Evaluator

Date

Re-Test Candidate

Date

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

### 11.5 Evaluating and Reporting Progress

#### 11.5.1 Evaluating and Reporting

JPR- HMT #17

Created: March 12, 2024

### Assess and Communicate Progress of Assigned Tasks for a Hazmat/WMD Incident

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

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

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

<b>STANDARD:</b> 11.5.1 NFPA 470, 2022 Edition	<b>TASK:</b> Assess and communicate progress of assigned tasks for a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will assess and communicate progress of assigned tasks for a hazmat/WMD incident. The candidate must score <b>4 out of 4 steps</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"><li>• AHJ SOPs</li><li>• Communication equipment</li><li>• Hazmat scenario at a facility</li><li>• Assignment in IAP</li><li>• Current incident conditions</li><li>• Strategies and tactics for the scenario</li></ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Compare actual behavior of material and container to predicted behavior.				
2.	Determine effectiveness of strategies and tactics that have been performed.				
3.	Modify strategies and tactics based on incident status review if indicated.				
4.	Communicate status of strategies and tactics.				

#### First Test:

Total points needed to pass: **4** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

#### Second Test:

Total points needed to pass: **4** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

Evaluator (Print & Sign)

Date

Candidate

Date

Re-Test Evaluator

Date

Re-Test Candidate

Date

Proctor/Candidate Comments:



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4 Action Plan Implementation

JPR- HMT #18

### 11.4.2 Personal Protective Equipment Use

Created: March 12, 2024

#### Perform Emergency Procedures for PPE and/or SCBA Failure in the Hot Zone

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

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

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

<b>STANDARD:</b> 11.4.2 NFPA 470, 2022 Edition	<b>TASK:</b> Perform emergency for PPE and/or SCBA failure in the hot zone.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will perform emergency procedures for PPE and/or SCBA failure in the hot zone at a hazmat/WMD incident. The candidate must score <b>5 out of 5 steps</b> for <i>Puncture, Tear or Suit Breach</i> , including any steps marked <b>MUST PASS</b> to successfully complete this skill. The candidate must score <b>5 out of 7 steps</b> for <i>Loss of Air/System Failure</i> , including any steps marked <b>MUST PASS</b> to successfully complete this skill. The candidate must score <b>3 out of 3 steps</b> for <i>If Unable to Self-Rescue or Resolve Issue</i> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>AHJ SOPs</li> <li>Chemical protective clothing ensemble (CPC) with SCBA</li> <li>Emergency backup breathing system (EBBS)</li> <li>Rescue backup team</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	<b>Puncture, Tear or Suit Breach</b>				
1.	Fold suit material over puncture or tear and hold in position with hand. <b>MUST PASS</b>				
2.	Remain calm, declare Mayday, and notify your partner. <b>MUST PASS</b>				
3.	Notify Entry Team Leader of situation.				
4.	Leave hot zone immediately with partner. <b>MUST PASS</b>				
5.	Proceed to decontamination area for emergency decontamination and suit removal.				
	<b>Loss of Air/System Failure</b>				
1.	Notify your partner.				
2.	Declare Mayday and provide information regarding emergency situation and your status. <b>MUST PASS</b>				
3.	Assess situation. <ul style="list-style-type: none"> <li>a. Can malfunction be fixed or bypassed?</li> <li>b. Can air from cylinder be used if removed from harness?</li> </ul>				
4.	If wearing a non- encapsulated suit, disconnect air hose and connect to partner's EBSS connection.				
5.	If wearing an encapsulated suit, remove SCBA facepiece and breathe slowly from exhaled air inside suit.				
6.	Leave hot zone immediately with partner. <b>MUST PASS</b>				
7.	Proceed to decontamination area for emergency decontamination and suit removal.				
	<b>If Unable to Self-Rescue or Resolve Issue</b>				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

1.	Notify your partner.				
2.	Declare Mayday and provide information regarding emergency situation and your status. <b>MUST PASS</b>				
3.	Remain calm and wait for backup rescue team.				

### Puncture, Tear or Suit Breach

**First Test:**

Total points needed to pass: **4** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **4** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Loss of Air/System Failure

**First Test:**

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### If Unable to Self-Rescue or Resolve Issue

**First Test:**

Total points needed to pass: **4** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **4** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)

Date

Candidate

Date

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Re-Test Evaluator

Date

Re-Test Candidate

Date

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4 Action Plan Implementation

JPR- HMT #19

### 11.4.2 Personal Protective Equipment Use

Created: March 12, 2024

#### Don, Work in and Doff a Vapor-Protective (Class 1) Ensemble

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

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

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

<b>STANDARD:</b> 11.4.2 NFPA 470, 2022 Edition	<b>TASK:</b> Don, work in and doff a vapor protective (class1) ensemble for a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will don, work in and doff a vapor-protective (class 1) ensemble for a hazmat/WMD incident. The candidate must score <b>19 out of 24 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• Vapor-protective ensemble (class 1)</li> <li style="width: 50%;">• Donning/doffing personnel</li> <li>• SCBA</li> <li>• Decontamination equipment</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Ensure pre-entry medical monitoring is performed. <b>MUST PASS</b>				
2.	Perform a visual inspection of PPE and SCBA for damage or defects. <b>MUST PASS</b>				
3.	Ensure the ensemble is the correct size.				
4.	Ensure zipper is in good working order.				
5.	Remove objects that could damage ensemble.				
6.	Don ensemble to the waist. <b>MUST PASS</b>				
7.	Don work boots.				
8.	Pull ensemble leg opening over the top of the work boots if appropriate.				
9.	Don SCBA. <b>MUST PASS</b>				
10.	Don the SCBA facepiece and ensure a proper fit and seal. <b>MUST PASS</b>				
11.	Attach SCBA regulator to facepiece and ensure proper operation. <b>MUST PASS</b>				
12.	Breathe through respirator and ensure that respirator is functioning properly and perform positive and negative pressure test. <b>MUST PASS</b>				
13.	Don inner protective gloves.				
14.	Pull ensemble hood up completely so that facepiece straps and skin are not exposed. <b>MUST PASS</b>				
15.	Ensure all closures are sealed. <b>MUST PASS</b>				
16.	Perform pre-entry checks.				
17.	Perform work assignment.				
18.	Undergo technical decontamination while wearing PPE, as necessary.				
19.	Doff ensemble in reverse order of donning while continuing to breathe air from respirator. <b>MUST PASS</b>				
20.	Remove SCBA facepiece, shutoff the cylinder valve and disarm PASS. <b>MUST PASS</b>				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

21.	Undergo post-exposure monitoring and surveillance.				
22.	Conduct a post-entry inspection of PPE for damage or defects. <b>MUST PASS</b>				
23.	Document findings.				
24.	Return to proper storage.				

### First Test:

Total points needed to pass: **19** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Second Test:

Total points needed to pass: **19** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)

Date

Candidate

Date

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Re-Test Evaluator

Date

Re-Test Candidate

Date

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4 Action Plan Implementation

**JPR- HMT #20**

### 11.4.2 Personal Protective Equipment Use

Created: March 12, 2024

#### Don, Work in and Doff a Liquid Splash-Protective (Class 2) Ensemble

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

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

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

<b>STANDARD:</b> 11.4.2 NFPA 470, 2022 Edition	<b>TASK:</b> Don, work in and doff a liquid splash-protective (class 2) ensemble for a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will don, work in and doff a liquid splash-protective (class 2) ensemble for a hazmat/WMD incident. The candidate must score <b>15 out of 19 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• Liquid splash-protective ensemble (class 2)</li> <li style="width: 50%;">• Donning/doffing personnel</li> <li style="width: 50%;">• SCBA</li> <li style="width: 50%;">• Decontamination equipment</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Perform a visual inspection of PPE for damage and defects. <b>MUST PASS</b>				
2.	Don class 2 ensemble and secure closures. <b>MUST PASS</b>				
3.	Don work boots.				
4.	Pull ensemble leg opening over the top of the work boots.				
5.	Don SCBA. <b>MUST PASS</b>				
6.	Don the SCBA facepiece and ensure a proper fit and seal. <b>MUST PASS</b>				
7.	Pull ensemble hood up completely so that the facepiece straps and skin are not exposed. <b>MUST PASS</b>				
8.	Breathe through respirator and ensure that the respirator is operating properly and perform positive and negative pressure test. <b>MUST PASS</b>				
9.	Don inner protective gloves.				
10.	Don outer protective gloves and pull the ensemble sleeve over the outside of the gloves.				
11.	Perform pre-entry checks.				
12.	Perform work assignment.				
13.	Undergo decontamination, if appropriate.				
14.	Doff ensemble in reverse order of donning while continuing to breathe air from respirator.				
15.	Remove SCBA facepiece, shutoff cylinder valve and disarm PASS. <b>MUST PASS</b>				
16.	Undergo post-exposure monitoring and surveillance.				
17.	Conduct a post-entry inspection of PPE for damage or defects. <b>MUST PASS</b>				
18.	Document findings.				
19.	Return to proper storage.				



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **15** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **15** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4 Action Plan Implementation

JPR- HMT #21

### 11.4.2 Personal Protective Equipment Use

Created: March 12, 2024

#### Don, Work in and Doff an Airborne/Particulate-Protective (Class 3) Ensemble

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

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

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

<b>STANDARD:</b> 11.4.2 NFPA 470, 2022 Edition	<b>TASK:</b> Don, work in and doff an airborne/particulate-protective (class 3) ensemble for a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will don, work in and doff an airborne/particulate-protective (class 3) ensemble for a hazmat/WMD incident. The candidate must score <b>14 out of 18 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>Airborne/particulate-protective ensemble (class 3)</li> <li>Air purifying device (APR or PAPR)</li> <li>Decontamination equipment</li> <li>Donning/doffing personnel</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Perform a visual inspection of PPE for damage or defects. <b>MUST PASS</b>				
2.	Don class 3 ensemble and secure closures. <b>MUST PASS</b>				
3.	Don work boots.				
4.	Don APR or PAPR. <b>MUST PASS</b>				
5.	Breathe through respirator and ensure that the respirator is operating properly and perform positive and negative pressure test. <b>MUST PASS</b>				
6.	Don protective headgear, if required.				
7.	Pull ensemble hood up completely so that the facepiece straps and skin are not exposed. <b>MUST PASS</b>				
8.	Don inner protective gloves.				
9.	Don outer protective gloves.				
10.	Perform pre-entry checks.				
11.	Perform work assignment.				
12.	Undergo decontamination, if appropriate.				
13.	Doff ensemble in reverse order of donning. <b>MUST PASS</b>				
14.	Doff respirator.				
15.	Undergo post-entry exposure monitoring and surveillance.				
16.	Conduct a post-entry inspection of PPE for damage or defects. <b>MUST PASS</b>				
17.	Document findings.				
18.	Return to proper storage.				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **14** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **14** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4 Action Plan Implementation

JPR- HMT #22

### 11.4.2 Personal Protective Equipment Use

Created: March 12, 2024

#### Don, Work in and Doff a Biological Agent/Particulate-Protective (Class 4) Ensemble

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

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

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

<b>STANDARD:</b> 11.4.2 NFPA 470, 2022 Edition	<b>TASK:</b> Don, work in and doff a biological agent/particulate-protective (class 4) ensemble for a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will don, work in and doff a biological agent/particulate-protective (class 4) ensemble for a hazmat/WMD incident. The candidate must score <b>10 out of 14 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>Biological agent/particulate-protective ensemble (class 4)</li> <li>Air purifying device (APR or PAPR)</li> <li>Decontamination equipment</li> </ul> <ul style="list-style-type: none"> <li>Donning/doffing personnel</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Perform a visual inspection of PPE for damage or defects. <b>MUST PASS</b>				
2.	Don class 4 ensemble. <b>MUST PASS</b>				
3.	Don chemical resistant boots or booties.				
4.	Don APR or PAPR. <b>MUST PASS</b>				
5.	Breathe through respirator and ensure that the respirator is operating properly and perform a positive and negative pressure test. <b>MUST PASS</b>				
6.	Don gloves.				
7.	Perform pre-entry checks.				
8.	Perform work assignment.				
9.	Undergo decontamination, if appropriate.				
10.	Doff ensemble in reverse order of donning. <b>MUST PASS</b>				
11.	Doff respirator. <b>MUST PASS</b>				
12.	Dispose of garments per AHJ requirements.				
13.	Undergo post-exposure monitoring and surveillance. <b>MUST PASS</b>				
14.	Complete reports and document as required.				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **10** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **10** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

### 11.4 Action Plan Implementation

JPR- HMT #23

#### 11.4.2 Personal Protective Equipment Use

Created: March 12, 2024

### Inspect, Test, Maintain and Document Chemical-Protective Clothing Serviceability

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

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

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

<b>STANDARD:</b> 11.4.2 NFPA 470, 2022 Edition	<b>TASK:</b> Inspect, test, maintain and document chemical-protective clothing serviceability.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will inspect, test, maintain and document chemical-protective clothing serviceability. The candidate must score <b>5 out of 5 steps for Inspection</b> to successfully complete this skill. The candidate must score <b>2 out of 2 steps for Testing (Pressure Test)</b> to successfully complete this skill. The candidate must score <b>1 out of 1 steps for Maintenance</b> to successfully complete this skill. The candidate must score <b>2 out of 2 steps for Documentation</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>Appropriate PPE with manufacturer’s instructions.</li> <li>PPE maintenance logs/forms</li> <li>Compressed air source</li> <li>Manufacturer’s pressure test kit</li> </ul> <ul style="list-style-type: none"> <li>Replacement components per manufacturer’s recommendations</li> <li>Zipper lubricant per manufacturer’s recommendations</li> <li>Water and mild detergent</li> <li>Documentation/reports</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	<b>Inspection</b>				
1.	Ensure the suit’s serviceability per SOPs.				
2.	Visually inspect both the interior and exterior of the suit looking for damage or defects.				
3.	Visually inspect the suit for any changes to the suit material.				
4.	Check to ensure the zipper operates correctly.				
5.	Check the function of all the valves and passthroughs if applicable.				
	<b>Testing (Pressure Test)</b>				
1.	Test the suit according to the manufacturer’s recommendations.				
2.	Check and record pressure as per the manufacturer’s recommendations.				
	<b>Maintenance</b>				
1.	Maintain suit according to manufacturer’s recommendations.				
	<b>Documentation</b>				
1.	Document all findings during the inspection as per the AHJ’s requirements and remove any suits with defects or malfunctions from service.				
2.	Return to proper storage as per the manufacturer’s instructions.				



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## Inspection

### First Test:

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Second Test:

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

## Testing (Pressure Test)

### First Test:

Total points needed to pass: **2** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Second Test:

Total points needed to pass: **2** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

## Maintenance

### First Test:

Total points needed to pass: **1** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Second Test:

Total points needed to pass: **1** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

## Documentation

### First Test:

Total points needed to pass: **2** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Second Test:

Total points needed to pass: **2** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)

Date

Candidate

Date

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Re-Test Evaluator

Date

Re-Test Candidate

Date

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

### 11.4.4 Rescue

JPR- HMT #24

#### 11.4.4.1 Rescue an Incapacitated Entry Team Member

Created: March 12, 2024

### Conduct Emergency Decontamination

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

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

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

<b>STANDARD:</b> 11.4.4.1 NFPA 470, 2022 Edition	<b>TASK:</b> Conduct emergency decontamination at a hazmat/WMD incident.				
	<b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will conduct emergency decontamination at a hazmat/WMD incident. The candidate must score <b>5 out of 7 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b>					
<ul style="list-style-type: none"> <li>• PPE</li> <li>• SCBA</li> <li>• Charged hoesline and water supply</li> <li>• Decontamination equipment</li> <li>• Containers for contaminated equipment</li> <li>• Firefighting apparatus</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Establish a decontamination line. <b>MUST PASS</b>				
2.	Instruct contaminated personnel to place tools and equipment in the designated area for decontamination.				
3.	Use low pressure water spray for gross wash.				
4.	Instruct personnel to doff PPE while continuing to breathe air from SCBA. <b>MUST PASS</b> <ol style="list-style-type: none"> <li>a. Remove helmet and hood (slide hood over face mask to airline).</li> <li>b. Remove turnout coat and outer gloves.</li> <li>c. Roll turnout pants down with the clean side out and step out of boots.</li> <li>d. Remove SCBA facepiece, shut off the cylinder valve and disarm PASS.</li> <li>e. Remove and dispose inner gloves.</li> </ol> Note: A helper may be used to doff PPE.				
5.	Wash, using soap and water or disposable towels to clean the head, face, neck, hands and wrists before moving to the rehab area.				
6.	Ensure appropriate disposal or decontamination of PPE.				
7.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.3, 11.4.5 Response Planning, Decontamination

JPR- HMT #25

### 11.3.3, 11.4.5.1 Decontamination Method Selection, Mass Decontamination

Created: March 12, 2024

#### Perform Mass Decontamination on Ambulatory People

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

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

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

<b>STANDARD:</b> 11.3.3, 11.4.5.1 NFPA 470, 2022 Edition	<b>TASK:</b> Perform mass decontamination on ambulatory people at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will perform mass decontamination on ambulatory people at a hazmat/WMD incident. The candidate must score <b>14 out of 17 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• PPE/SCBA</li> <li style="width: 50%;">• Charged hoseline with fog pattern nozzle</li> <li style="width: 50%;">• Towels, sponges, brushes</li> <li style="width: 50%;">• Disposable garments</li> <li style="width: 50%;">• Product information resources (ERG, WISER, SDS, etc.)</li> <li style="width: 50%;">• Fire apparatus</li> <li style="width: 50%;">• Bags/tags for personal property/evidence</li> <li style="width: 50%;">• Monitoring/detection devices</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select appropriate decontamination method to minimize hazards. <b>MUST PASS</b>				
2.	Identify equipment required to implement decontamination method selected.				
3.	Ensure that all responders are wearing appropriate PPE for performing mass decontamination operations. <b>MUST PASS</b>				
4.	Establish mass decontamination corridor for ambulatory people. <b>MUST PASS</b>				
5.	Ensure the decontamination corridor provides privacy, if possible.				
6.	Prepare fire apparatus for use during mass decontamination.				
7.	Set fire nozzle to fog pattern.				
8.	Instruct all people to go through mass decontamination. <b>MUST PASS</b>				
9.	Instruct people to remove contaminated clothing, ensuring that they do not come into further contact with any other contaminants.				
10.	Instruct people to keep arms raised as they proceed slowly through the wash area.				
11.	Monitor for additional contamination using appropriate detection device. <b>MUST PASS</b>				
12.	Instruct persons to move to a clean area to dry off and provide them a clean garment to wear.				
13.	Direct persons to the medical evaluation station.				
14.	Inform emergency medical staff of the contaminant involved and its hazards, if known. <b>MUST PASS</b>				
15.	Ensure personnel, tools and equipment are decontaminated.				
16.	Terminate decontamination operations.				
17.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **14** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **14** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.3, 11.4.5 Response Planning, Decontamination

JPR- HMT #26

### 11.3.3, 11.4.5.1 Decontamination Method Selection, Mass Decontamination

Created: March 12, 2024

#### Perform Mass Decontamination on Non-Ambulatory People

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

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

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

<b>STANDARD:</b> 11.3.3, 11.4.5.1 NFPA 470, 2022 Edition	<b>TASK:</b> Perform mass decontamination on non-ambulatory people at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will perform mass decontamination on non-ambulatory people at a hazmat/WMD incident. The candidate must score <b>15 out of 18 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>• PPE/SCBA</li> <li>• Towels, sponges, brushes, disposable garments</li> <li>• Product information resources (ERG, WISER, SDS, etc.)</li> <li>• Bags/tags for personal property/evidence</li> <li>• Charged hoseline with fog pattern nozzle</li> <li>• Backboard or litter</li> <li>• Fire apparatus</li> <li>• Monitoring/detection devices</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select appropriate decontamination method to minimize hazards. <b>MUST PASS</b>				
2.	Identify equipment required to implement decontamination method selected.				
3.	Ensure that all responders are wearing appropriate PPE for performing mass decontamination operations. <b>MUST PASS</b>				
4.	Establish mass decontamination corridor for non-ambulatory people. <b>MUST PASS</b>				
5.	Ensure the decontamination corridor provides privacy, if possible.				
6.	Establish an initial triage point to evaluate and direct people.				
7.	Prepare apparatus and set fire nozzle to fog pattern.				
8.	Transfer person to the non-ambulatory wash area of the decontamination station on an appropriate backboard/litter device. <b>MUST PASS</b>				
9.	Remove all PPE/clothing, jewelry and personal belongings and place in appropriate containers.				
10.	Carefully undress non-ambulatory person(s) and avoid spreading the contamination when undressing. Do not touch the outside of the clothing to the skin.				
11.	Completely wash the entire body using handheld hoses, sponges and/or brushes and then rinse following the AHJ's SOPs for safety. <b>MUST PASS</b>				
12.	Transfer the person from the wash and rinse stations to a drying station after completing the decontamination process. Ensure that the person is completely dry and provide garments.				
13.	Monitor for additional contamination using the appropriate detection device.				
14.	Have on-scene medical personnel reevaluate the victim's injuries.				
15.	Inform emergency medical staff of the contaminant involved and its hazards, if known. <b>MUST PASS</b>				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

16.	Ensure personnel, tools and equipment are decontaminated.				
17.	Terminate decontamination operations.				
18.	Complete required reports and supporting documentation.				

### First Test:

Total points needed to pass: **15** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Second Test:

Total points needed to pass: **15** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)

Date

Candidate

Date

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Re-Test Evaluator

Date

Re-Test Candidate

Date

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

### 11.3, 11.4.5 Response Planning, Decontamination

JPR- HMT #27

### 11.3.3, 11.4.5.2 Decontamination Method Selection, Technical Decontamination

Created: March 12, 2024

### Perform Technical Decontamination on Ambulatory People

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

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

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

<b>STANDARD:</b> 11.3.3, 11.4.5.2 NFPA 470, 2022 Edition	<b>TASK:</b> Perform technical decontamination on ambulatory people at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will perform technical decontamination on ambulatory people at a hazmat/WMD incident. The candidate must score <b>14 out of 17 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>• PPE/SCBA</li> <li>• Towels, sponges, brushes, disposable garments</li> <li>• Product information resources (ERG, WISER, SDS, etc.)</li> <li>• Bags/tags for personal property/evidence</li> <li>• Technical decontamination equipment</li> <li>• Charged hoseline with fog pattern nozzle</li> <li>• Backboard or litter</li> <li>• Fire apparatus</li> <li>• Monitoring/detection devices</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select appropriate technical decontamination method to minimize hazards. <b>MUST PASS</b>				
2.	Identify equipment required to implement decontamination method selected.				
3.	Ensure that all responders are wearing appropriate PPE for performing technical decontamination operations. <b>MUST PASS</b>				
4.	Establish technical decontamination corridor for ambulatory people. <b>MUST PASS</b>				
5.	Ensure the decontamination corridor provides privacy, if possible.				
6.	Establish an initial triage point to evaluate and direct people. <b>MUST PASS</b>				
7.	Instruct person to remove potentially contaminated clothing and jewelry, ensuring they do not come into further contact with the contaminants. Emergency responders place tools and/or equipment in designated area.				
8.	Instruct person to undergo gross decontamination. <b>MUST PASS</b>				
9.	Instruct person to undergo secondary decontamination.				
10.	Instruct person to keep arms raised as they proceed slowly through the wash area.				
11.	Instruct person to enter the privacy station, remove clothing down to undergarments and shower and wash thoroughly from the top down.				
12.	Provide a clean garment for person to wear after decontamination.				
13.	Monitor for additional contamination using the appropriate detection device. <b>MUST PASS</b>				
14.	Direct the person to the medical evaluation station.				
15.	Ensure personnel, tools and equipment are decontaminated.				
16.	Terminate decontamination operations.				
17.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **14** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **14** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.3, 11.4.5 Response Planning, Decontamination

JPR- HMT #28

### 11.3.3, 11.4.5.2 Decontamination Method Selection, Technical Decontamination

Created: March 12, 2024

#### Perform Technical Decontamination on Non-Ambulatory People

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

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

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

<b>STANDARD:</b> 11.3.3, 11.4.5.2 NFPA 470, 2022 Edition	<b>TASK:</b> Perform technical decontamination on non-ambulatory people at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will perform technical decontamination on non-ambulatory people at a hazmat/WMD incident. The candidate must score <b>14 out of 17 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>• PPE/SCBA</li> <li>• Towels, sponges, brushes, disposable garments</li> <li>• Product information resources (ERG, WISER, SDS, etc.)</li> <li>• Bags/tags for personal property/evidence</li> <li>• Technical decontamination equipment</li> <li>• Charged hoseline with fog pattern nozzle</li> <li>• Backboard or litter</li> <li>• Fire apparatus</li> <li>• Monitoring/detection devices</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Select appropriate decontamination method to minimize hazards. <b>MUST PASS</b>				
2.	Identify equipment required to implement decontamination method selected.				
3.	Ensure that all responders are wearing appropriate PPE for performing technical decontamination operations. <b>MUST PASS</b>				
4.	Establish technical decontamination corridor for ambulatory people. <b>MUST PASS</b>				
5.	Ensure the decontamination corridor provides privacy, if possible.				
6.	Establish an initial triage point to evaluate and direct people. <b>MUST PASS</b>				
7.	Perform intervention, if needed.				
8.	Transfer person to the non-ambulatory wash area of the decontamination station on an appropriate backboard/litter device. <b>MUST PASS</b>				
9.	Remove all PPE/clothing, jewelry and personal belongings and place in appropriate containers.				
10.	Carefully undress non-ambulatory persons and avoid spreading the contamination when undressing. Do not touch the outside of the clothing to the skin.				
11.	Completely wash entire body using handheld hoses, sponges and/or brushes and rinse. <b>MUST PASS</b>				
12.	Transfer the person from the wash and rinse stations to a drying station after completing the decontamination process. Ensure that the person is completely dry and provided garments.				
13.	Monitor for additional contamination using the appropriate detection device. <b>MUST PASS</b>				
14.	Have on-scene medical personnel reevaluate injuries. <b>MUST PASS</b>				
15.	Ensure personnel, tools and equipment are decontaminated.				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

16.	Terminate decontamination operations.				
17.	Complete required reports and supporting documentation.				

**First Test:**

Total points needed to pass: **14** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **14** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

**11.3, 11.4.3, 11.4.4, 11.4.5 Response Planning**

**JPR- HMT #29**

**11.3.3, 11.4.3.2, 11.4.3.3, 11.4.3.4, 11.4.4.2, 11.4.5.2 Technical Decontamination**

Created: March 12, 2024

## Implement Technical Decontamination for Weapons, Tools and Equipment

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

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

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

<p><b>STANDARD:</b> 11.3.3, 11.4.3.2, 11.4.3.3, 11.4.3.4, 11.4.4.2, 11.4.5.2 <b>11.4.5.2</b> NFPA 470, 2022 Edition</p>	<p><b>TASK:</b> Implement technical decontamination for weapons, tools and equipment at a hazmat/WMD incident.</p> <p><b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.</p>				
<p><b>PERFORMANCE OUTCOME:</b> The candidate will implement technical decontamination for weapons, tools and equipment at a hazmat/WMD incident. The candidate must score <b>7 out of 10 steps</b>, including any steps marked <b>MUST PASS</b> to successfully complete this skill.</p>					
<p><b>EQUIPMENT REQUIRED:</b></p> <ul style="list-style-type: none"> <li>• PPE/SCBA</li> <li>• Towels, sponges, brushes, disposable garments</li> <li>• Product information resources (ERG, WISER, SDS, etc.)</li> <li>• Bags/tags for personal property/evidence</li> <li>• Technical decontamination equipment</li> <li>• Charged hoseline with fog pattern nozzle</li> <li>• Backboard or litter</li> <li>• Fire apparatus</li> <li>• Monitoring/detection devices</li> <li>• Weapons, tools/equipment for decon</li> </ul>					
<p><b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:</p>					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify appropriate decontamination method to minimize hazards. <b>MUST PASS</b>				
2.	Identify equipment required to implement decontamination method selected.				
3.	Ensure that all responders are wearing appropriate PPE for performing technical decontamination operations. <b>MUST PASS</b>				
4.	Establish technical decontamination corridors according to AHJ's SOPs for weapons, tools and equipment. <b>MUST PASS</b>				
5.	Establish an initial triage point to evacuate and direct personnel. <b>MUST PASS</b>				
6.	Instruct personnel to transfer weapons, tools and equipment at appropriate decon lines.				
7.	Use appropriate technical decontamination method on weapons, tools and equipment according to AHJ procedures.				
8.	Monitor weapons, tools and equipment for contamination; repeat decontamination steps as necessary. <b>MUST PASS</b>				
9.	Inspect and appropriately stow weapons, tools and equipment.				
10.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.3, 11.4.5 Response Planning, Action Plan Implementation 11.3.3, 11.4.5.2 Decontamination Method Selection, Technical Decontamination

**JPR- HMT #30**

Created: March 12, 2024

### Implement Technical Decontamination for Potential Suspects

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

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

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

<b>STANDARD:</b> 11.3.3, 11.4.5.2 NFPA 470, 2022 Edition	<b>TASK:</b> Implement technical decontamination for potential suspects at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will implement technical decontamination for potential suspects at a hazmat/WMD incident. The candidate must score <b>9 out of 12 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• PPE/SCBA</li> <li style="width: 50%;">• Charged hoseline with fog pattern nozzle</li> <li style="width: 50%;">• Towels, sponges, brushes, disposable garments</li> <li style="width: 50%;">• Backboard or litter</li> <li style="width: 50%;">• Product information resources (ERG, WISER, SDS, etc.)</li> <li style="width: 50%;">• Fire apparatus</li> <li style="width: 50%;">• Bags/tags for personal property/evidence</li> <li style="width: 50%;">• Monitoring/detection devices</li> <li style="width: 50%;">• Technical decontamination equipment</li> <li style="width: 50%;">• “Suspects” and “law enforcement personnel”</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify appropriate decontamination method to minimize hazards. <b>MUST PASS</b>				
2.	Identify equipment required to implement decontamination method selected.				
3.	Ensure that all responders are wearing appropriate PPE for performing technical decontamination operations. <b>MUST PASS</b>				
4.	Establish technical decontamination corridors according to AHJ’s SOPs for suspects. <b>MUST PASS</b>				
5.	Establish an initial triage point to evacuate and direct personnel. <b>MUST PASS</b>				
6.	Instruct potential suspect and accompanying law enforcement officer, if present, to transfer tools and/or equipment and evidence at appropriate decontamination lines.				
7.	Instruct potential suspect to undergo decontamination procedure.				
8.	Perform technical decontamination. <b>MUST PASS</b>				
9.	Monitor suspect for contamination; repeat decontamination steps as necessary. <b>MUST PASS</b>				
10.	Instruct or assist potential suspect to dry off, if necessary.				
11.	Direct individuals who have completed decontamination to medical evaluation.				
12.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **9** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **9** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.3, 11.4.5 Response Planning, Action Plan Implementation

JPR- HMT #31

### 11.3.3, 11.4.5.2 Decontamination Method Selection, Technical Decontamination

Created: March 12, 2024

#### Implement Technical Decontamination for Law Enforcement Personnel

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

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

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

<b>STANDARD:</b> 11.3.3, 11.4.5.2 NFPA 470, 2022 Edition	<b>TASK:</b> Implement technical decontamination for law enforcement personnel at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will implement technical decontamination for law enforcement personnel at a hazmat/WMD incident. The candidate must score <b>9 out of 12 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• PPE/SCBA</li> <li style="width: 50%;">• Charged hoseline with fog pattern nozzle</li> <li style="width: 50%;">• Towels, sponges, brushes, disposable garments</li> <li style="width: 50%;">• Backboard or litter</li> <li style="width: 50%;">• Product information resources (ERG, WISER, SDS, etc.)</li> <li style="width: 50%;">• Fire apparatus</li> <li style="width: 50%;">• Bags/tags for personal property/evidence</li> <li style="width: 50%;">• Monitoring/detection devices</li> <li style="width: 50%;">• Technical decontamination equipment</li> <li style="width: 50%;">• "Law enforcement personnel"</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify appropriate decontamination method to minimize hazards. <b>MUST PASS</b>				
2.	Identify equipment required to implement decontamination method selected.				
3.	Ensure that all responders are wearing appropriate PPE for performing technical decontamination operations. <b>MUST PASS</b>				
4.	Establish technical decontamination corridors according to AHJ's SOPs for law law enforcement personnel. <b>MUST PASS</b>				
5.	Establish an initial triage point to evacuate and direct law enforcement personnel. <b>MUST PASS</b>				
6.	Instruct law enforcement personnel to transfer tools and/or equipment and evidence at appropriate decontamination lines.				
7.	Instruct law enforcement personnel to undergo decontamination procedure.				
8.	Perform technical decontamination. <b>MUST PASS</b>				
9.	Monitor law enforcement personnel for contamination; repeat decontamination steps as necessary. <b>MUST PASS</b>				
10.	Instruct law enforcement personnel who have completed decontamination to dry off, and provide temporary garment if necessary.				
11.	Direct individuals who have completed decontamination to medical evaluation.				
12.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **9** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **9** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.3, 11.4.5 Response Planning, Action Plan Implementation 11.3.3, 11.4.5.2 Decontamination Method Selection, Technical Decontamination

**JPR- HMT #32**

Created: March 12, 2024

### Implement Technical Decontamination for Working Canines

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

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

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

<b>STANDARD:</b> 11.3.3, 11.4.5.2 NFPA 470, 2022 Edition	<b>TASK:</b> Implement technical decontamination for working canines at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will implement technical decontamination for working canines at a hazmat/WMD incident. The candidate must score <b>12 out of 16 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• PPE/SCBA</li> <li style="width: 50%;">• Charged hoseline with fog pattern nozzle</li> <li style="width: 50%;">• Towels, sponges, brushes, disposable garments</li> <li style="width: 50%;">• Canine handler</li> <li style="width: 50%;">• Product information resources (ERG, WISER, SDS, etc.)</li> <li style="width: 50%;">• Fire apparatus</li> <li style="width: 50%;">• Bags/tags for personal property/evidence</li> <li style="width: 50%;">• Monitoring/detection devices</li> <li style="width: 50%;">• Technical decontamination equipment</li> <li style="width: 50%;">• “working canine(s)”</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify appropriate decontamination method to minimize hazards. <b>MUST PASS</b>				
2.	Identify equipment required to implement decontamination method selected.				
3.	Ensure that all responders are wearing appropriate PPE for performing technical decontamination operations. <b>MUST PASS</b>				
4.	Establish technical decontamination corridors according to AHJ’s SOPs for canines. <b>MUST PASS</b>				
5.	Establish an initial triage point to evacuate and direct canines and their handlers. <b>MUST PASS</b>				
6.	Instruct handlers to leave tools and equipment at the tool drop.				
7.	Instruct handler to perform primary decontamination wash on canine.				
8.	Instruct handler to perform technical decontamination on canine.				
9.	Monitor canine for contamination, repeat decontamination steps as necessary. <b>MUST PASS</b>				
10.	Instruct handler to dry off canine.				
11.	Instruct handler to undergo primary and secondary decontamination.				
12.	Monitor handler for contamination; repeat decontamination steps as necessary. <b>MUST PASS</b>				
13.	Instruct handler to dry off and provide temporary garment if necessary.				
14.	Send canine and handler to vet evaluation station.				
15.	Send canine and handler to recovery and rehab station.				
16.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

### First Test:

Total points needed to pass: **12** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Second Test:

Total points needed to pass: **12** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

### Proctor/Candidate Comments:

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

11.3, 11.4.5 Response Planning, Action Plan Implementation

JPR- HMT #33

11.3.3, 11.4.5.2 Decontamination Method Selection, Technical Decontamination

Created: March 12, 2024

## Implement Technical Decontamination for Evidence

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

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

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

<b>STANDARD:</b> 11.3.3, 11.4.5.2 NFPA 470, 2022 Edition	<b>TASK:</b> Implement technical decontamination for evidence at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate will implement technical decontamination for evidence at a hazmat/WMD incident. The candidate must score <b>7 out of 10 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>• PPE/SCBA</li> <li>• Towels, sponges, brushes, disposable garments</li> <li>• Product information resources (ERG, WISER, SDS, etc.)</li> <li>• Bags/tags for personal property/evidence</li> <li>• Technical decontamination equipment</li> <li>• Charged hoseline with fog pattern nozzle</li> <li>• Canine handler</li> <li>• Fire apparatus</li> <li>• Monitoring/detection devices</li> <li>• Evidence to be decontaminated</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify appropriate decontamination method to minimize hazards. <b>MUST PASS</b>				
2.	Identify equipment required to implement decontamination method selected.				
3.	Ensure that all responders are wearing appropriate PPE for performing technical decontamination operations. <b>MUST PASS</b>				
4.	Establish technical decontamination corridors according to AHJ's SOPs for evidence. <b>MUST PASS</b>				
5.	Establish an initial triage point to evacuate and direct personnel. <b>MUST PASS</b>				
6.	Instruct personnel to transfer evidence at the appropriate decontamination line.				
7.	Use appropriate technical decontamination on the outside of the evidence package. <b>MUST PASS</b>				
8.	Monitor evidence for contamination; repeat decontamination steps as necessary. <b>MUST PASS</b>				
9.	Deliver decontaminated evidence to appropriate personnel, ensuring proper chain-of-custody documentation. <b>MUST PASS</b>				
10.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

### 11.4.4 Rescue

JPR- HMT #34

#### 11.4.4.2 Victim Rescue and Recovery

Created: March 12, 2024

### Perform Victim Rescue and Recovery Operations at a Hazmat/WMD Incident

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

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

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

<b>STANDARD:</b> 11.4.4.2 NFPA 470, 2022 Edition	<b>TASK:</b> Perform victim rescue and recovery operations at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall perform victim rescue and recovery operations at a hazmat/WMD incident. The candidate must score <b>8 out of 12 steps</b> for <i>Rescue Operations</i> , including any steps marked <b>MUST PASS</b> to successfully complete this skill. The candidate must score <b>5 out of 7 steps</b> for <i>Recovery Operations</i> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>• PPE/SCBA</li> <li>• Entry team for recovery operations</li> <li>• Entry team for rescue operations</li> <li>• Multiple victims (various states of mobility/consciousness/deceased)</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	<b>Rescue Operations</b>				
1.	Evaluate the situation including the hazards present and the status of victims in order to determine the feasibility of rescue and to prioritize victim rescue. <b>MUST PASS</b>				
2.	Select appropriate rescue or recovery tactic(s) and brief team members.				
3.	Ensure that all responders are wearing appropriate PPE. <b>MUST PASS</b>				
4.	Initiate any necessary countermeasures required to facilitate rescue.				
5.	Establish decontamination corridor appropriate to the incident.				
6.	Assemble and brief extraction crew on the task.				
7.	Communicate intent to begin extraction to Incident Commander.				
8.	Begin victim extraction using available specialized rescue equipment as appropriate. <b>MUST PASS</b>				
9.	Maintain continuous communication during extraction.				
10.	As extraction crew exits incident area with victims, begin emergency decontamination Procedures as per the AHJ. <b>MUST PASS</b>				
11.	Transport decontaminated victims to medical triage.				
12.	Complete required reports and supporting documentation.				
	<b>Recovery Operations</b>				
1.	Once all viable victims have been rescued, scene has been stabilized and approved for recovery operations has been given, assemble and brief recovery entry team.				
2.	Communicate intent to begin recovery to Incident Commander or appropriate authority.				
3.	Visually identify the location and status of deceased victims at the incident.				
4.	Maintain continuous communication during recovery operations.				



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

5.	As recovery entry team exits incident area with the victims, begin victim decontamination procedures. <b>MUST PASS</b>				
6.	Transport decontaminated victims to on-scene Medical Examiner.				
7.	Complete required reports and supporting documentation.				

### Rescue Operations

**First Test:**

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Recovery Operations

**First Test:**

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)

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Re-Test Candidate

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**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4.4 Rescue

**JPR- HMT #35**

### 11.4.4.1 Rescue an Incapacitated Entry Team Member

Created: March 12, 2024

#### Rescue an Incapacitated Entry Team Member from the Hot Zone

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

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

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

<b>STANDARD:</b> 11.4.4.1 NFPA 470, 2022 Edition	<b>TASK:</b> Rescue an incapacitated entry team member from the hot zone at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall rescue an incapacitated entry team member from the hot zone at a hazmat/WMD incident. The candidate must score <b>8 out of 12 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 50%;">• PPE/SCBA</li> <li style="width: 50%;">• Dragging device</li> <li style="width: 50%;">• Approved communications equipment</li> <li style="width: 50%;">• Backup team for rescue operations</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Evaluate the situation, including the hazards present and the status of victims, in order to determine the feasibility of rescue. <b>MUST PASS</b>				
2.	Select appropriate rescue tactic(s) and brief backup team members.				
3.	Ensure that all responders are wearing appropriate PPE. <b>MUST PASS</b>				
4.	Initiate any necessary countermeasures required to facilitate rescue.				
5.	Communicate intent to begin extraction to the Incident Commander.				
6.	Visually identify the location and status of responder(s) at the incident and assess/triage order of extraction. <b>MUST PASS</b>				
7.	Begin extraction of entry team member(s). <b>MUST PASS</b>				
8.	Using specialized rescue equipment, remove entry team member(s) from the hot zone. <b>MUST PASS</b>				
9.	Maintain continuous communication during extraction.				
10.	As extraction crew exits the incident area with the entry team member(s), begin emergency decontamination procedures. Assist with doffing rescued entry team member's PPE as necessary. <b>MUST PASS</b>				
11.	Transport decontaminated entry team member(s) to medical triage.				
12.	Complete required reports and supporting documentation.				



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

**First Test:**

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **8** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4.4 Rescue

JPR- HMT #36

### 11.4.4.2 Victim Rescue and Recovery

Created: March 12, 2024

#### Conduct Triage to Prioritize Rescue of Victims

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

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

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

<b>STANDARD:</b> 11.4.4.2 NFPA 470, 2022 Edition	<b>TASK:</b> Conduct triage to prioritize rescue of victims at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall conduct triage to prioritize rescue of victims at a hazmat/WMD incident. The candidate must score <b>5 out of 7 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"><li>• PPE/SCBA</li><li>• Approved communications equipment</li><li>• Medical equipment</li></ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Ensure scene safety and that responders are wearing appropriate PPE. <b>MUST PASS</b>				
2.	Identify patients to be triaged. <b>MUST PASS</b>				
3.	Assess victim's level of exposure/contamination. <b>MUST PASS</b>				
4.	Assess victim's level of consciousness and alertness.				
5.	Assess victim's respiration.				
6.	Assess victim's mobility.				
7.	Assign triage priorities based on AHJ approved criteria.				

#### First Test:

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

#### Second Test:

Total points needed to pass: **5** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

Evaluator (Print & Sign)

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Re-Test Evaluator

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Re-Test Candidate

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Proctor/Candidate Comments:



# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4 Action Plan Implementation

JPR- HMT #37

### 11.4.1, 11.4.3 Performing Assigned Roles in ICS, Performing Control Functions

Created: March 12, 2024

#### Perform or Direct Defensive Product Control Operations

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

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

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

<b>STANDARD:</b> 11.4.1, 11.4.3 NFPA 470, 2022 Edition	<b>TASK:</b> Perform or direct defensive product control operations at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall perform or direct defensive product control operations at a hazmat/WMD incident. The candidate must score <b>10 out of 14 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>• PPE/SCBA</li> <li>• AHJ SOPs for product control</li> <li>• Tools/equipment for product control</li> <li>• An assignment in an IAP</li> <li>• Results of incident analysis</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Ensure that the released chemical is identified and that its hazards are understood. <b>MUST PASS</b>				
2.	Identify control requirements. <b>MUST PASS</b>				
3.	Evaluate available defensive product control techniques and select appropriate technique as identified by AHJ.				
4.	Identify and verbalize safety concerns.				
5.	Select appropriate PPE and ensure compatibility. <b>MUST PASS</b>				
6.	Select appropriate tools, equipment and control agents and ensure compatibility.				
7.	Supervise selection of location to efficiently and safely perform the control operation.				
8.	Ensure that hazard monitoring is appropriately performed. <b>MUST PASS</b>				
9.	Perform (or supervise as responders perform) the defensive product control function as part of the hazardous materials branch or group organization.				
10.	Ensure that all safety regulations are followed.				
11.	Upon mitigation of the incident, ensure that any contaminated material is placed in an approved container for transportation to a disposal location.				
12.	If appropriate, oversee decontamination of tools, equipment and responders.				
13.	Ensure that tools are inspected and maintained according to manufacturer's requirements.				
14.	Ensure that any additional required documentation is completed.				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

### First Test:

Total points needed to pass: **10** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Second Test:

Total points needed to pass: **10** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4, 11.4.3 Action Plan Implementation, Performing Control Functions

JPR- HMT #38

### 11.4.1, 11.4.3.1, 11.4.3.2 Performing Assigned Functions in ICS, Product Control

Created: March 12, 2024

#### Control Leaks from Containers and/or Their Closures

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

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

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

<p><b>STANDARD:</b> 11.4.1, 11.4.3.1, 11.4.3.2 NFPA 470, 2022 Edition</p>	<p><b>TASK:</b> Control leaks from containers and/or their containers at a hazmat/WMD incident.</p> <p><b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.</p>				
<p><b>PERFORMANCE OUTCOME:</b> The candidate shall control leaks from containers and/or their closures at a hazmat/WMD incident. The candidate must score <b>16 out of 20 steps</b>, including any steps marked <b>MUST PASS</b> to successfully complete this skill.</p>					
<p><b>EQUIPMENT REQUIRED:</b></p> <ul style="list-style-type: none"> <li>• PPE/SCBA</li> <li>• AHJ SOPs for product control</li> <li>• Tools/equipment for product control (capping kits, patching/plugging, sleeve/jackets, clamp, etc.)</li> <li>• An assignment in an IAP</li> <li>• Results of incident analysis</li> </ul>					
<p><b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:</p>					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine the identity of leaking chemical and its hazards. <b>MUST PASS</b>				
2.	Identify control requirements and select appropriate technique for leak control.				
3.	Identify and verbalize safety concerns.				
4.	Select appropriate PPE and ensure compatibility. <b>MUST PASS</b>				
5.	Select appropriate tools and ensure compatibility. <b>MUST PASS</b>				
6.	Select location to efficiently and safely perform control operation.				
7.	Complete hazards monitoring requirements.				
8.	Follow safety procedures to minimize/avoid safety hazards.				
9.	Determine the location of the leak. <b>MUST PASS</b>				
10.	Remove obstructions from the container if possible.				
11.	Attempt to position container so that the location of the leak is in the vapor space.				
12.	If the container is disconnected from a process and can be reconnected, reconnect and gently open and close the valve stem to dislodge foreign matter from the seat using the valve handle or wrench.				
13.	Tighten or close leaking valves, closures, packing glands and/or fittings.				
14.	If leak persists, determine if leak should be capped, patched or plugged or if a jacket, sleeve or clamp should be applied.				
15.	Select appropriate tools or kit and apply as per the manufacturer's instructions.				
16.	Monitor the container to ensure the leak is controlled. <b>MUST PASS</b>				
17.	Communicate observations to Hazardous Materials Branch Director.				
18.	If appropriate, ensure decontamination of tools, equipment and responders.				
19.	Inspect and maintain tools and equipment as per the manufacturer's recommendations.				



# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

20.	Complete any necessary reports or documentation for product control operations.				
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**First Test:**

Total points needed to pass: **10** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **10** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)

Date

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Re-Test Evaluator

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**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4, 11.4.3 Action Plan Implementation, Performing Control Functions

JPR- HMT #39

### 11.4.1, 11.4.3.1, 11.4.3.2 Performing Assigned Functions in ICS, Product Control

Created: March 12, 2024

#### Perform Remote Valve Shutoff or Activate Emergency Shutoff Device

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

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

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

<b>STANDARD:</b> 11.4.1, 11.4.3.1, 11.4.3.2 NFPA 470, 2022 Edition	<b>TASK:</b> Perform remote valve shutoff or activate emergency shutoff device at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall perform remote valve shutoff or activate emergency shutoff device at a hazmat/WMD incident. The candidate must score <b>7 out of 11 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>• PPE/SCBA</li> <li>• AHJ SOPs for product control</li> <li>• Tools/equipment for product control</li> <li>• An assignment in an IAP</li> <li>• Results of incident analysis</li> <li>• Emergency remote shutoff device</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine identity of released chemical and its hazards. <b>MUST PASS</b>				
2.	Identify control requirements.				
3.	Select appropriate technique for product control as identified by the AHJ. <b>MUST PASS</b>				
4.	Identify and verbalize safety concerns.				
5.	Select appropriate PPE and ensure compatibility. <b>MUST PASS</b>				
6.	Identify and locate the emergency remote control valve and/or emergency shutoff device.				
7.	Operate the remote control valve and/or emergency shutoff device properly. <b>MUST PASS</b>				
8.	Monitor the container to ensure the leak is controlled. <b>MUST PASS</b>				
9.	If appropriate, ensure decontamination of tools, equipment and responders.				
10.	Ensure that tools are inspected and maintained according to the manufacturer's requirements.				
11.	Ensure that any additional required documentation is completed.				





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**First Test:**

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4, 11.4.3 Action Plan Implementation, Performing Control Functions 11.4.1, 11.4.3.3 Performing Assigned Functions in ICS, Overpacking

**JPR- HMT #40**

Created: March 12, 2024

### Transfer or Overpack a Leaking Gas Cylinder to an Emergency Response Containment Vessel (ERCV)

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

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

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

<b>STANDARD:</b> 11.4.1, 11.4.3.3 NFPA 470, 2022 Edition	<b>TASK:</b> Transfer or overpack a leaking gas cylinder to an emergency response containment vessel (ERCV) at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall transfer or overpack a leaking gas cylinder to an emergency response containment vessel (ERCV) at a hazmat/WMD incident. The candidate must score <b>17 out of 22 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li style="width: 33%;">• PPE/SCBA</li> <li style="width: 33%;">• An assignment in an IAP</li> <li style="width: 33%;">• Emergency response containment vessel (ERCV)</li> <li style="width: 33%;">• AHJ SOPs for product control</li> <li style="width: 33%;">• Results of incident analysis</li> <li style="width: 33%;">• Leaking gas cylinder (prop)</li> <li style="width: 33%;">• Tools/equipment for product control</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Identify the gas and determine its hazards. <b>MUST PASS</b>				
2.	Identify control requirements and select appropriate technique for product control as identified by the AHJ.				
3.	Identify and verbalize safety concerns.				
4.	Select appropriate PPE and ensure compatibility. <b>MUST PASS</b>				
5.	Select appropriate tools and equipment and ensure compatibility. <b>MUST PASS</b>				
6.	Select the location to efficiently and safely perform the control operation.				
7.	Complete hazards monitoring requirements. <b>MUST PASS</b>				
8.	Follow safety procedures to minimize/avoid safety hazards.				
9.	If the leak is on the side or on the bottom of the cylinder, place the cylinder in the Horizontal position with the leak in the vapor space.				
10.	Following manufacturer's instructions, inspect and prepare the recovery vessel to receive the leaking cylinder.				
11.	Move the recovery vessel into position directly in front of the leaking cylinder and loosen the T-bolts.				
12.	Position the leaking cylinder to slide the bottom first inside of the recovery vessel and Slide the leaking cylinder, bottom first, into the recovery vessel. <b>MUST PASS</b>				
13.	Close the hinged cover by positioning the lid evenly on the mating sealing surface to assure proper sealing.				
14.	Stand on the sides to swing the T-bolts into position and alternately tighten the bolts Snugly until the lid is secure.				
15.	Close the vent valve and install the outlet cap on the valve.				



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16.	Check for leaks. <b>MUST PASS</b>				
17.	Check the hinged lid sealing joint for leaks. If leaking, tighten the T-bolts again in an alternating manner.				
18.	Consult with the cylinder supplier and arrange for disposal.				
19.	Communicate observations to Hazardous Materials Branch Director or appropriate supervisor.				
20.	If appropriate, ensure decontamination of tools, equipment and responders.				
21.	Ensure that tools and equipment are properly inspected and maintained according to manufacturer's requirements.				
22.	Complete and necessary reports or documentation.				

**First Test:**

Total points needed to pass: **17** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **17** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)	Date	Candidate	Date
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**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN

## NFPA 470, 2022 Edition

### 11.4, 11.4.3 Action Plan Implementation, Performing Control Functions

#### 11.4.1, 11.4.3.3 Performing Assigned Functions in ICS, Overpacking

JPR- HMT #41

Created: March 12, 2024

### Overpack a Nonbulk Container and/or a Radioactive Materials Package

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

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

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

<p><b>STANDARD:</b> 11.4.1, 11.4.3.3 NFPA 470, 2022 Edition</p>	<p><b>TASK:</b> Overpack a nonbulk container and/or a radioactive materials package at a hazmat/WMD incident.</p> <p><b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.</p> <p>The candidate must complete the <i>Initial Steps</i> for this skill; the proctor will choose the method of overpacking.</p>				
<p><b>PERFORMANCE OUTCOME:</b> The candidate shall overpack a nonbulk container and/or a radioactive materials package at a hazmat/WMD incident. The candidate must complete and score <b>7 out of 10 steps</b> for <i>Initial Actions</i>, including any steps marked <b>MUST PASS</b> to successfully complete this skill. The candidate must score <b>6 out of 9 steps</b> for <i>Slide-in Method</i>, including any steps marked <b>MUST PASS</b> to successfully complete this skill. The candidate must score <b>7 out of 10 steps</b> for <i>Rolling Slide-in Method</i>, including any steps marked <b>MUST PASS</b> to successfully complete this skill. The candidate must score <b>6 out of 9 steps</b> for <i>Slip-Over Method</i>, including any steps marked <b>MUST PASS</b> to successfully complete this skill.</p>					
<p><b>EQUIPMENT REQUIRED:</b></p> <ul style="list-style-type: none"> <li>• PPE/SCBA</li> <li>• AHJ SOPs for product control</li> <li>• Tools/equipment for product control</li> <li>• An assignment in an IAP</li> <li>• Results of incident analysis</li> <li>• Overpack container</li> <li>• Nonbulk container/radioactive</li> <li>• Boards, pipes, wedges</li> <li>• Labeling Material</li> </ul>					
<p><b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:</p>					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
<b>Initial Actions</b>					
1.	Determine identity of released chemical and its hazards. <b>MUST PASS</b>				
2.	Identify control requirements and select appropriate technique for product control as identified by the AHJ.				
3.	Identify and verbalize safety concerns.				
4.	Select appropriate PPE and ensure compatibility. <b>MUST PASS</b>				
5.	Select appropriate tools and ensure compatibility. <b>MUST PASS</b>				
6.	Select location to efficiently and safely perform the control operation.				
7.	Complete hazards monitoring requirements.				
8.	Follow safety procedures to minimize/avoid safety hazards.				
9.	Avoid direct contact with the hazardous material to the extent possible, including residue On the patched container or package.				
10.	Place the damaged container or package in appropriate position using safe lifting techniques. <b>MUST PASS</b>				
<b>Slide-in Method</b>					
1.	Using a wedge, place the container or package onto a board or piece of pipe using safe lifting techniques.				



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2.	With the damaged container or package resting on the board or pipe, position the overpack container so it's open top slides under the damaged container or package by several inches.				
3.	As the overpack container is held in place, team member(s) grasps the top of the damaged container or package and rolls/slides it on to the pipe into the overpack container.				
4.	Lift the overpack container into an upright position using safe lifting techniques and attach the overpack container lid. <b>MUST PASS</b>				
5.	Close overpack container per manufacturer's instructions.				
6.	Mark and label the overpack container according to appropriate regulations and AHJ's SOPs.				
7.	Communicate observations to Hazardous Materials Branch Director or appropriate supervisor.				
8.	If appropriate, ensure decontamination of tools, equipment, and responders and that tools and equipment are properly inspected and maintained.				
9.	Complete any necessary reports or documentation.				
<b>Rolling Slide-in Method</b>					
1.	With the damaged container or package on its side, position the overpack container at approximately 30 degrees to the base of the damaged container or package.				
2.	Ensure that the area in front of the container or package is clear of obstructions.				
3.	Roll both containers or packages and overpack container so that the damaged container or package is inserted into the overpack container.				
4.	Repeat Steps 20-22 to get majority of container or package into the overpack container.				
5.	Lift the overpack container into an upright position using safe lifting techniques and attach the overpack container lid. <b>MUST PASS</b>				
6.	Close the overpack container per manufacturer's instructions.				
7.	Mark and label the overpack container according to appropriate regulations and AHJ's SOPs.				
8.	Communicate observations to Hazardous Materials Branch Director or appropriate supervisor.				
9.	If appropriate, ensure decontamination of tools, equipment, and responders and that tools and equipment are properly inspected and maintained.				
10.	Complete any necessary reports or documentation.				
<b>Slip-Over Method</b>					
1.	Stand the damaged container or package using safe lifting techniques.				
2.	Turn overpack container upside down and place over the damaged container or package.				
3.	With the damaged container or package inside the overpack container, carefully lay the overpack container on its side.				
4.	Lift the overpack container into an upright position using safe lifting techniques and attach the overpack container lid. <b>MUST PASS</b>				
5.	Close the overpack container as per manufacturer's instructions.				
6.	Mark and label the overpack container according to appropriate regulations and AHJ's SOPs.				
7.	Communicate observations to Hazardous Materials Branch Director or appropriate supervisor.				



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8.	If appropriate, ensure decontamination of tools, equipment, and responders and that tools and equipment are properly inspected and maintained.				
9.	Complete any necessary reports or documentation for product control operations.				

### Initial Actions

#### First Test:

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

#### Second Test:

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Slide-in method

#### First Test:

Total points needed to pass: 6 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

#### Second Test:

Total points needed to pass: 6 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Rolling Slide-in Method

#### First Test:

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

#### Second Test:

Total points needed to pass: 7 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Slip-Over Method

#### First Test:

Total points needed to pass: 6 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

#### Second Test:

Total points needed to pass: 6 Total points scored: \_\_\_\_\_ All MUST PASS items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)

Date

Candidate

Date

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Re-Test Evaluator

Date

Re-Test Candidate

Date

Proctor/Candidate Comments:

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.4, 11.4.3 Action Plan Implementation, Performing Control Functions

JPR- HMT #42

### 11.4.1, 11.4.3.4 Performing Assigned Functions in ICS, Liquid Product Transfer

Created: March 12, 2024

## Conduct Liquid Transfer Operations Involving a Leaking Non-Pressure Container

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

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

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

<b>STANDARD:</b> 11.4.1, 11.4.3.4 NFPA 470, 2022 Edition	<b>TASK:</b> Conduct liquid transfer operations involving a leaking non-pressure container at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall conduct liquid transfer operations involving a leaking non-pressure container at a hazmat/WMD incident. The candidate must score <b>25 out of 32 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>• PPE/SCBA</li> <li>• AHJ SOPs for product control</li> <li>• Assignment in IAP</li> <li>• Results of incident analysis</li> <li>• Leaking hazmat container (prop)</li> <li>• Recovery container</li> <li>• Transfer operations tools</li> <li>• Placards/labels</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Determine identity of released chemical and its hazards. <b>MUST PASS</b>				
2.	Select appropriate technique for product control as identified by AHJ.				
3.	Identify and verbalize safety concerns.				
4.	Select appropriate PPE and confirm compatibility. <b>MUST PASS</b>				
5.	Select appropriate tools and equipment and ensure compatibility. <b>MUST PASS</b>				
6.	Select location to efficiently and safely perform the control operation.				
7.	Complete hazards monitoring requirements.				
8.	Follow safety procedures to minimize/avoid safety hazards.				
	<b>Bond and Ground Containers</b>				
9.	Establish ground field.				
10.	Bond the containers. <b>MUST PASS</b>				
11.	Ground the containers. <ul style="list-style-type: none"> <li>a. Connect the ground wiring to the damaged container first.</li> <li>b. Connect to the grounding source.</li> </ul>				
12.	Verify conductivity to ground and ground system is within specifications.				
	<b>Transfer Liquid Product</b>				
13.	Ensure recovery container is compatible with liquid product. <b>MUST PASS</b>				
14.	Recognize the potential need to suppress vapors.				
15.	Placard, mark and label the recovery container correctly. <b>MUST PASS</b>				
16.	Stand by ready to shut down and purge if any leaks develop, hoses break, pump seal fails, etc.				



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17.	Connect all lines to containers and transfer equipment before opening any product valves.				
18.	Tighten connections.				
19.	Check for potential leaks by pressuring system with air.				
20.	Determine the sequence for opening the valves based on the pressure in the containers and the system being used for the transfer.				
21.	Start the transfer slowly.				
22.	Monitor pumping and/or compression equipment and ensure it is operating within its normal parameters.				
23.	Monitor receiving container(s) to avoid over loading or over filling. <b>MUST PASS</b>				
24.	Make sure the pump / motive equipment is operating correctly.				
25.	After transfer is complete purge lines and pumps.				
26.	Disconnect system.				
27.	When required, install security seals on valves and fittings.				
28.	Inspect for leaks. <b>MUST PASS</b>				
29.	Communicate observations to Hazardous Materials Branch Director or appropriate supervisor.				
30.	If appropriate, ensure decontamination of tools, equipment, and responders.				
31.	Inspect and maintain tools and equipment per manufacturer's recommendations and SOPs.				
32.	Complete any necessary reports or documentation for product control operations.				

**First Test:**

Total points needed to pass: **25** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

**Second Test:**

Total points needed to pass: **25** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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

**Proctor/Candidate Comments:**

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# HAZARDOUS MATERIALS TECHNICIAN NFPA 470, 2022 Edition

## 11.6 Terminating the Incident

JPR- HMT #43

### 11.6.1 Incident Debrief, Analysis and Critique

Created: March 12, 2024

#### Participate in an Incident Debriefing, Analysis and Critique

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

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

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

<b>STANDARD:</b> 11.6.1 NFPA 470, 2022 Edition	<b>TASK:</b> Participate in an incident debriefing, analysis and critique at a hazmat/WMD incident.  <b>Proctor Note:</b> Whenever possible integrate the evaluation of this line item within a consolidated hazardous materials/emergency scenario. This will allow multiple line items to be evaluated effectively in conjunction with other hazardous materials/emergency scenario activities.				
<b>PERFORMANCE OUTCOME:</b> The candidate shall participate in an incident debriefing, analysis and critique at a hazmat/WMD incident. The candidate must score <b>6 out of 8 steps</b> , including any steps marked <b>MUST PASS</b> to successfully complete this skill.					
<b>EQUIPMENT REQUIRED:</b> <ul style="list-style-type: none"> <li>AHJ SOPs</li> <li>Assignment in IAP</li> <li>Incident information (objectives, strategies/tactics, etc.)</li> <li>Forms for documentation and reporting</li> </ul>					
<b>CONDITIONS:</b> Given a hazardous materials incident, the candidate shall demonstrate the ability to:					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
	<b>Debriefing</b>				
1.	Provide assistance in ensuring a quiet, distraction free on-scene environment.				
2.	Communicate operational observations regarding: <ol style="list-style-type: none"> <li>Who responded to the incident?</li> <li>What operations took place?</li> <li>When did operations take place?</li> <li>Were operations successful?</li> <li>Were there any injuries? And how were they treated?</li> </ol>				
3.	Communicate materials that individuals were possibly exposed to, signs and symptoms of possible exposure, and appropriate follow-up medical care. <b>MUST PASS</b>				
4.	Participate in evaluation of Site Safety Plan, when appropriate.				
	<b>Post-Incident Analysis and Critique</b>				
5.	Participate in gathering information, completing reports, and assembling information for the analysis. <b>MUST PASS</b>				
6.	Communicate your observations regarding <ol style="list-style-type: none"> <li>What did we do well?</li> <li>Where do we need to improve?</li> <li>What have we learned?</li> </ol>				
7.	As appropriate, offer your suggestions for improvement.				
8.	As assigned, complete, forward, and file required reports, records, and supporting documents.				



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### First Test:

Total points needed to pass: **6** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

### Second Test:

Total points needed to pass: **6** Total points scored: \_\_\_\_\_ All **MUST PASS** items passed: Yes \_\_\_\_\_ No \_\_\_\_\_

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Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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### Proctor/Candidate Comments:

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