

MINNESOTA FIRE SERVICE CERTIFICATION HAZ MAT OPERATIONS SKILLS TESTING

Hazardous Materials Operations NFPA 472 2008 Edition



Requirements:

1. Required prerequisite of Fire Fighter II or equivalent documented training of Chapters 5 and 6 of the NFPA 472 Standard, 2008 Edition
2. Completed application form and fee of \$125 is covered.
3. Training for *each* of the 8 mission specific responsibilities detailed in Chapter 6 of the 472 standard is required.
4. Candidate will be required to complete at least 4 of the 9 skill station chosen at random by the evaluator. At least one from each section of the standard will be tested.
5. Candidate is responsible for providing and wearing OSHA and NFPA compliant Personal Protective Gear. Facial hair is limited per OSHA (mustache and goatee).
6. Candidates must arrive to the test site at least 30 minutes prior to the scheduled start time.

Note:

1. Completion and passage of this two part test; 100 written question and 4 or more skill stations; will result in candidate receiving IFSAC and Pro Board certification to all Mission Specific Competencies of 472 Standard, Chapter 6, Operations Level Responder.

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Hazardous Materials Operations Testing Protocols

Standard Requirements:

1. Section 6.1.1.2 requires candidates operating at the Operations Level to be trained at the awareness level (Chapter 4 of 472) and all core competencies of Chapter 5 of the 472 Standard.
2. Section 6.1.1.3 requires the candidate to receive additional training to meet applicable OSHA requirements.
3. Section 6.1.1.4 requires Operations responders to operate under the guidance of a Technician level responder.

Site Requirements:

1. Medium to large open field or somewhat level area in which shovels, rakes, hoes and other hand implements can be used to remove/return soil to create dikes, dams or diversion canals. Alternate option is site in which soil/sand is delivered and can be removed.
2. Fire apparatus, hand tools and supplies which will be needed for the practical skills stations selected by the Lead Coordinator. The host site representative will be advised in advance of the test date the specific items needed.

Candidate Testing Procedures:

1. At Skill Station 1; Incident Command, candidates will be given a scenario by the evaluator and independently respond to written questions with fill in the blank answers. This portion of the exam will be focused on incident command, developing an action plan, and completion of reports.
2. At Skill Stations 2-9 (3 stations will be selected) candidates will work as a team in groups of 4 to 6 under the guidance of the evaluator/technician, to mitigate the incident. Start times will be scheduled for each team.

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SKILL STATION 1 – INCIDENT COMMAND

Reference: NFPA 472 2009 Edition: 5.1.2.2 (3) a, b, c; (4) a, b; 5.5.2

- Implement the planned response for a hazardous materials/WMD incident to favorably change the outcomes consistent with the emergency response plan and/or standard operating procedures.
- Evaluate the progress of the actions taken at a hazardous materials/WMD incident to ensure that the response objectives are being met safely, effectively, and efficiently.
- Given two scenarios involving hazardous materials/WMD incidents, including the incident action plan, the operations level responder shall communicate the status of the planned response through the normal chain of command.

Scenario 1:

The candidate has responded to the scene of a motor vehicle accident involving two passenger cars and a tanker transport carrier containing an unknown product which is leaking. The collision occurred at the intersection of a rural state and county road with a total of five passengers/operators from the three vehicles. The transport vessel size is more than 2,000 gallons. Injuries to passengers/occupants are significant but not life threatening, extrication is needed for at least one vehicle. Residential and commercial properties exist with 4/10 of one mile in two of the four directions. South wind at 5 to 7 mph.

Scenario 2:

The candidate has responded to the scene of an 8,000 sq. ft. industrial building at which light smoke and haze is visible and coming out of roof vents and other exterior openings such as windows and doors. Building occupants are all outside in a small group huddled together and accounted for. The owner is not present, however the shop foreman is in the group. He/she reports to you that they are a plating operation in which numerous chemicals are used to strip/clean, prepare and coat various products for metal finishing. He/she reports an explosion near the back of the building, possible one of the electrical motors used to pump material in and out of the tanks.

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SKILL STATION 1 – INCIDENT COMMAND - CONTINUED

Candidate Number _____

Evaluator: _____

Reference: NFPA 472 2008 Edition: 5.1.2.2 (3) a, b, c; (4) a, b; 5.5.2

Skill:

The candidate will be provided with a visual aid/document of this scene. The candidate will be part of a unified command serving as Operations Section Chief or Assistant. The candidate will provide detail in writing where appropriate and verbally where appropriate to the evaluator, addressing the criteria listed below.

Did the candidate, as instructed, demonstrate competency in the following: Deduction Points

Describe scene control procedures and how they can be enforced	_____10
Describe safety procedures for first responders	_____10
Identify control zone locations and the reason for each zone	_____10
Determine the need for emergency decontamination	_____10
If criminal or terrorist acts are suspected, describe methods to preserve evidence	_____10
Design the incident command organization (ICS) for the Incident Action Plan	_____10
Assign available resources to perform tasks identified in the Incident Action Plan	_____10
Describe methods to evaluate the progress of implemented actions	_____10
Describe communication procedures through the chain of command	_____10
Identify the methods for immediate notification of the incident commander and other response personnel for emergency conditions at the incident	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 2 PERSONAL PROTECTIVE EQUIPMENT AND REPORTING

Candidate Number _____

Evaluator: _____

Reference: NFPA 472 2008 Edition: 6.2.4.1 (1-5), 6.2.5.1, 6.3.6.1, 6.4.6.1

Given the personal protective equipment provided by the AHJ, the operations level responder assigned to use personal protective equipment shall demonstrate the ability to don, work in, and doff the equipment provided to support mission-specific tasks and shall meet the following requirements: (6.2.4)

Given a scenario involving a hazardous materials/WMD incident, the operations level responder assigned to use personal protective equipment shall identify and complete the reporting and documentation requirements consistent with the emergency response plan or standard operating procedures regarding personal protective equipment: (6.2.5)

Given a scenario involving a hazardous materials/WMD incident, the operations level responder assigned to mass decontamination operations shall complete the reporting and documentation requirements consistent with the emergency response plan or standard operating procedures and shall meet the following requirements: (6.3.6.1, 6.4.6.1)

Skill: Don, work, doff personal protective equipment. Demonstrate procedure for undergoing technical decontamination process. Skill to be demonstrated as part of activities in product control skill stations and/or mass decontamination skill stations and/or technical decontamination skill stations. Completes report/documents specific to incident.

Did the candidate, as instructed, demonstrate competency in the following:

Deduction Points

Selects appropriate level equipment given the situation	_____ 15
Properly and completely dons appropriate gear	_____ 15
Demonstrates proper and safe work activities appropriate to level of gear	_____ 10
Properly removes gear ensuring all safety protocols followed	_____ 10
Properly cleans or disposes of gear (whichever is appropriate)	_____ 10
Demonstrates to evaluator proper process of technical decontamination	_____ 10
Identifies proper reports documents to be completed for incident.	_____ 10
Fills out all reports/documents required for incident	_____ 10
Reports are accurate, complete and professional (grammar, spelling, etc)	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 3 MASS DECONTAMINATION/PROCEDURES

Candidate Number _____

Evaluator: _____

Reference: NFPA 472 2008 Edition: 6.3.4.1 and 6.3.4.2

Given a scenario involving a hazardous materials/WMD incident and the emergency response plan or standard operating procedures, the operations level responder assigned to mass decontamination operations shall demonstrate the mass decontamination duties assigned in the incident action plan by describing the local procedures for the implementation of the mass decontamination function within the incident command system. (6.3.4.1)

The operations level responder assigned to mass decontamination operations shall demonstrate the ability to set up and implement mass decontamination operations for ambulatory and non-ambulatory victims.. Did the candidate, as instructed, demonstrate competency in the following: (6.3.4.2)

Skill: Establish decontamination process based upon scenario assigned by evaluator.

Did the candidate, as instructed, demonstrate competency in the following: **Deduction Points:**

Ambulatory:

Describe procedures for implementation of mass decontamination _____ 20

Identifies appropriate PPE to wear

Demonstrates 2 methods for mass decontamination. Methods may be: _____ 20

- Low pressure fog stream cascade
- Two engines side by side to create a corridor for using fog nozzles
- Aerial apparatus using waterway to establish shower

Sets up tarps or provides other method to provide victim privacy _____ 10

Assures that victims remove all contaminated clothing and decontaminate _____ 10

Non-Ambulatory:

Select patient retrieval and movement device or method _____ 10

Personnel wear appropriate PPE _____ 10

Demonstrate decontamination process & basic EMS care _____ 20

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 4

TECHNICAL DECONTAMINATION DUTIES

Candidate Number _____

Evaluator: _____

Reference: NFPA 472 2008 Edition: 6.4.4.1 & 6.4.4.2

Given a scenario involving a hazardous materials/WMD incident and the emergency response plan or standard operating procedures, the operations level responder assigned to technical decontamination operations shall demonstrate the technical decontamination duties assigned in the incident action plan and shall meet the following requirements. (6.4.4.1)

The responder assigned to technical decontamination operations shall demonstrate the ability to set up and implement the following types of decontamination operations: (6.4.4.2)

Skill: Establish decontamination process based upon scenario assigned by evaluator.

Did the candidate, as instructed, demonstrate competency in the following:

Deduction Points

Describe procedures for technical decontamination of personnel wearing CPE	_____ 20
Identify appropriate PPE for decontamination team to wear	_____ 10
Sets up technical decontamination stations (include scrubbing)	_____ 15
Make provision for dropping off tools, etc that are not to be decontaminated	_____ 15
Conducts and documents pre entry and post entry EMS surveys	_____ 10
Provides rest and rehabilitation facility for decontaminated responders	_____ 10
Decontaminates decontamination team	_____ 10
Documents names of all exposed personnel and any exposure symptoms	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 5

CRIMINAL INCIDENT/HAZARDOUS MATERIALS

Candidate Number _____

Evaluator: _____

Reference: NFPA 472 2008 Edition: 6.5.4.1 (1-14)

Given the incident action plan for a criminal incident involving hazardous materials/WMD, the operations level responder assigned to evidence preservation and sampling shall implement or oversee the implementation of the selected response actions safely and effectively and shall meet the following requirements:

Skill: Candidate will be provided a scenario and incident action plan from which candidate will demonstrate the following:

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Secure and preserve scene.	_____ 10
Document personnel and scene activities	_____ 10
Describe limited authority of fire department	_____ 10
Notify local law enforcement	_____ 10
Under supervision and direction of law enforcement authority:	
○ Identify potential samples to be collected	_____ 10
○ Demonstrate sample and evidence protection	_____ 10
○ Demonstrate proper evidence and sample taking	_____ 10
○ Demonstrate evidence logging and labeling	_____ 10
○ Demonstrate proper evidence packaging	_____ 10
○ Demonstrate proper evidence decontamination procedures	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 6A

PRODUCT CONTROL – ABSORPTION

Candidate Number _____ **Evaluator:** _____

Reference: NFPA 472 2008 Edition: 6.6.4.1 (1,3)

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD. [6.6.4.1 (1)]

Given the required tools and equipment, demonstrate how to perform the following control activities: Absorption, Adsorption, Damming, Diking, Dilution, Diversion, Retention, Remote Valve Shut Off, Vapor Dispersion, Vapor Suppression. [6.6.4.1 (3)]

Skill: The Candidate, given a scenario by the evaluator, shall demonstrate how to control product using the absorption techniques.

	<u>Deduction Points</u>
Did the candidate, as instructed, demonstrate competency in the following:	
Use ERG to determine hazards & determine absorption is appropriate action.	_____ 10
Verbalize isolating and evacuating the area according to the ERG guidelines	_____ 10
Verbalize eliminating all ignition sources.	_____ 10
Wears all PPE correctly	_____ FAIL
Stays out of the product.	_____ FAIL
Procures proper absorbent material and uses sufficient quantity and method to control	_____ 20
Identifies source of spill or leak and stops leak by closing the remote valve, if it is applicable and safe to do so.	_____ 10
Provide safety backup procedure in the event of unexpected reaction.	_____ 10
Perform initial monitoring test to determine the current degree of hazard, strength, or concentration of the material.	_____ 10
Controls runoff, and controls vapors when possible.	_____ 10
Repeats monitoring process to determine when the absorption process has accomplished its goal of reducing the hazard to a safe level.	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 6B

PRODUCT CONTROL – ADSORPTION

Candidate Number _____ **Evaluator:** _____

Reference: NFPA 472 2008 Edition: 6.6.4.1 (1,3)

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD. [6.6.4.1 (1)]

Given the required tools and equipment, demonstrate how to perform the following control activities: Absorption, Adsorption, Damming, Diking, Dilution, Diversion, Retention, Remote Valve Shut Off, Vapor Dispersion, Vapor Suppression. [6.6.4.1 (3)]

Skill: The Candidate, given a scenario by the evaluator, shall demonstrate how to control product using the adsorption techniques.

	<u>Deduction Points</u>
Did the candidate, as instructed, demonstrate competency in the following:	
Use ERG to determine hazards & determine adsorption is appropriate action.	_____ 10
Verbalize isolating and evacuating the area according to the ERG guidelines	_____ 10
Verbalize eliminating all ignition sources.	_____ 10
Wears all PPE correctly	_____ FAIL
Stays out of the product.	_____ FAIL
Procures proper adsorbent material and uses sufficient quantity and method to control	_____ 20
Identifies source of spill or leak and stops leak by closing the remote valve, if it is applicable and safe to do so.	_____ 10
Provide safety backup procedure in the event of unexpected reaction.	_____ 10
Perform initial monitoring test to determine the current degree of hazard, strength, or concentration of the material.	_____ 10
Controls runoff, and controls vapors when possible.	_____ 10
Repeats monitoring process to determine when the adsorption process has accomplished its goal of reducing the hazard to a safe level.	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 6C PRODUCT CONTROL - DAMMING

Candidate Number _____ **Evaluator:** _____

Reference: NFPA 472 2008 Edition: 6.6.4.1 (1,3)

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD. [6.6.4.1 (1)]

Given the required tools and equipment, demonstrate how to perform the following control activities: Absorption, Adsorption, Damming, Diking, Dilution, Diversion, Retention, Remote Valve Shut Off, Vapor Dispersion, Vapor Suppression. [6.6.4.1 (3)]

Skill: The Candidate, given a scenario by the evaluator, shall demonstrate how to control product using damming techniques..

	<u>Deduction Points</u>
Did the candidate, as instructed, demonstrate competency in the following:	
Use ERG to determine hazards & determine damming is appropriate action.	_____ 10
Verbalize isolating and evacuating the area according to the ERG guidelines	_____ 10
Verbalize eliminating all ignition sources.	_____ 10
Wears all PPE correctly	_____ FAIL
Stays out of the product.	_____ FAIL
Identifies source of spill or leak and stops leak by closing the remote valve, if it is applicable and safe to do so.	
Construct dam in proper/sufficient size and location	_____ 30
Provide safety backup procedure in the event of unexpected reaction.	_____ 10
Perform initial monitoring test to determine the current degree of hazard, strength, or concentration of the material.	_____ 10
Controls runoff, and controls vapors when possible.	_____ 10
Repeats monitoring process to determine when the damming process has accomplished its goal of reducing the hazard to a safe level.	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 6D

PRODUCT CONTROL – DIKING

Candidate Number _____ **Evaluator:** _____

Reference: NFPA 472 2008 Edition: 6.6.4.1 (1,3)

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD. [6.6.4.1 (1)]

Given the required tools and equipment, demonstrate how to perform the following control activities: Absorption, Adsorption, Damming, Diking, Dilution, Diversion, Retention, Remote Valve Shut Off, Vapor Dispersion, Vapor Suppression. [6.6.4.1 (3)]

Skill: The Candidate, given a scenario by the evaluator, shall demonstrate how to control product using diking techniques.

	<u>Deduction Points</u>
Did the candidate, as instructed, demonstrate competency in the following:	
Use ERG to determine hazards & determine diking is appropriate action.	_____ 10
Verbalize isolating and evacuating the area according to the ERG guidelines	_____ 10
Verbalize eliminating all ignition sources.	_____ 10
Wears all PPE correctly	_____ FAIL
Stays out of the product.	_____ FAIL
Identifies source of spill or leak and stops leak by closing the remote valve, if it is applicable and safe to do so.	
Construct dike in proper/sufficient size and location	_____ 30
Provide safety backup procedure in the event of unexpected reaction.	_____ 10
Perform initial monitoring test to determine the current degree of hazard, strength, or concentration of the material.	_____ 10
Controls runoff, and controls vapors when possible.	_____ 10
Repeats monitoring process to determine when the diking process has accomplished its goal of reducing the hazard to a safe level.	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 6E PRODUCT CONTROL - DILUTION

Candidate Number _____ **Evaluator:** _____

Reference: NFPA 472 2008 Edition: 6.6.4.1 (1,3)

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD. [6.6.4.1 (1)]

Given the required tools and equipment, demonstrate how to perform the following control activities: Absorption, Adsorption, Damming, Diking, Dilution, Diversion, Retention, Remote Valve Shut Off, Vapor Dispersion, Vapor Suppression. [6.6.4.1 (3)]

Skill: The Candidate shall demonstrate how to apply water to dilute a spill or leak in a quantity sufficient to dilute the effects of the material to a safe concentration

Did the candidate, as instructed, demonstrate competency in the following:

	<u>Deduction Points</u>
Use ERG to determine hazards & determine WATER dilution is appropriate.	_____ 10
Verbalize isolating and evacuating the area according to the ERG guidelines	_____ 10
Verbalize eliminating all ignition sources.	_____ 10
Wears all PPE correctly	_____ FAIL
Stays out of the product.	_____ FAIL
Identifies source of spill or leak and stops leak by closing the remote valve, if it is applicable and safe to do so.	_____ 10
Establishes two hoselines. One attack/one backup/safety 1 ½” or 1 ¾” line.	_____ 10
Perform initial monitoring test to determine the current degree of hazard, strength, or concentration of the material.	_____ 10
Initial applies a small amount of water to a small amount of spilled material to insure adverse reactions will not occur.	_____ 10
For corrosives – flow water at low pressure-low volume to dilute spilled material and does not plunge water into the product. OR	_____ 10
For polar solvent liquids – applies water spray in high flow rates to the surface of the liquid and does not plunge water into the product.	_____ 10
Controls runoff, and controls vapors when possible.	_____ 10
Repeats monitoring process to determine when the dilution process has accomplished its goal of reducing the hazard to a safe level.	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

MINNESOTA FIRE SERVICE CERTIFICATION HAZ MAT OPERATIONS SKILLS TESTING

SKILL STATION 6F

PRODUCT CONTROL – DIVERSION

Candidate Number _____ **Evaluator:** _____

Reference: NFPA 472 2008 Edition: 6.6.4.1 (1,3)

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD. [6.6.4.1 (1)]

Given the required tools and equipment, demonstrate how to perform the following control activities: Absorption, Adsorption, Damming, Diking, Dilution, Diversion, Retention, Remote Valve Shut Off, Vapor Dispersion, Vapor Suppression. [6.6.4.1 (3)]

Skill: The Candidate, given a scenario by the evaluator, shall demonstrate how to control product using diversion techniques.

	<u>Deduction Points</u>
Did the candidate, as instructed, demonstrate competency in the following:	
Use ERG to determine hazards & determine diversion is appropriate action.	_____ 10
Verbalize isolating and evacuating the area according to the ERG guidelines	_____ 10
Verbalize eliminating all ignition sources.	_____ 10
Wears all PPE correctly	_____ FAIL
Stays out of the product.	_____ FAIL
Identifies source of spill or leak and stops leak by closing remote valve if it is applicable and safe to do so.	_____ 10
Perform initial monitoring test to determine hazard magnitude	_____ 10
Construct diversion in proper/sufficient size and location	_____ 20
or concentration of the material.	_____ 10
Controls runoff, and controls vapors when possible.	_____ 10
Repeats monitoring process to determine when the diversion process has accomplished its goal of reducing the hazard to a safe level.	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

MINNESOTA FIRE SERVICE CERTIFICATION HAZ MAT OPERATIONS SKILLS TESTING

SKILL STATION 6G

PRODUCT CONTROL – RETENTION

Candidate Number _____ **Evaluator:** _____

Reference: NFPA 472 2008 Edition: 6.6.4.1 (1,3)

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD. [6.6.4.1 (1)]

Given the required tools and equipment, demonstrate how to perform the following control activities: Absorption, Adsorption, Damming, Diking, Dilution, Diversion, Retention, Remote Valve Shut Off, Vapor Dispersion, Vapor Suppression. [6.6.4.1 (3)]

Skill: The Candidate, given a scenario by the evaluator, shall demonstrate how to control product using retention techniques.

	<u>Deduction Points</u>
Did the candidate, as instructed, demonstrate competency in the following:	
Use ERG to determine hazards & determine retention is appropriate action.	_____ 10
Verbalize isolating and evacuating the area according to the ERG guidelines	_____ 10
Verbalize eliminating all ignition sources.	_____ 10
Wears all PPE correctly	_____ FAIL
Stays out of the product.	_____ FAIL
Identifies source of spill or leak and stops leak by closing the remote valve, if it is applicable and safe to do so.	
Construct/identify/procure retention area in proper/sufficient size and location	_____ 30
Provide safety backup procedure in the event of unexpected reaction.	_____ 10
Perform initial monitoring test to determine the current degree of hazard, strength, or concentration of the material.	_____ 10
Controls runoff, and controls vapors when possible.	_____ 10
Repeats monitoring process to determine when the retention process has accomplished its goal of reducing the hazard to a safe level.	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

MINNESOTA FIRE SERVICE CERTIFICATION HAZ MAT OPERATIONS SKILLS TESTING

SKILL STATION 6H

PRODUCT CONTROL – REMOTE VALVE SHUT OFF

Candidate Number _____ **Evaluator:** _____

Reference: NFPA 472 2008 Edition: 6.6.4.1 (1,3)

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD. [6.6.4.1 (1)]

Given the required tools and equipment, demonstrate how to perform the following control activities: Absorption, Adsorption, Damming, Diking, Dilution, Diversion, Retention, Remote Valve Shut Off, Vapor Dispersion, Vapor Suppression. [6.6.4.1 (3)]

Skill: The Candidate, given a scenario by the evaluator, shall demonstrate how to control product ensuring or activation of a remote valve shut off.

	<u>Deduction Points</u>
Did the candidate, as instructed, demonstrate competency in the following:	
Use ERG to determine hazards & determine retention is appropriate action.	_____ 10
Verbalize isolating and evacuating the area according to the ERG guidelines	_____ 10
Verbalize eliminating all ignition sources.	_____ 10
Wears all PPE correctly	_____ FAIL
Stays out of the product.	_____ FAIL
Identifies source of spill or leak and stops leak by closing the remote valve, if it is applicable and safe to do so.	
Locate, identify, and safely shut down product line using remote valve	_____ 30
Establishes two hoselines. One attack/one backup/safety 1 ½” or 1 ¾” line.	_____ 10
Perform initial monitoring test to determine the current degree of hazard, strength, or concentration of the material.	_____ 10
Controls runoff, and controls vapors when possible.	_____ 10
Repeats monitoring process to determine when the remote shut off process has accomplished its goal of reducing the hazard to a safe level.	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

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SKILL STATION 6I

PRODUCT CONTROL – VAPOR DISPERSION

Candidate Number _____ **Evaluator:** _____

Reference: NFPA 472 2008 Edition: 6.6.4.1 (1,3)

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD. [6.6.4.1 (1)]

Given the required tools and equipment, demonstrate how to perform the following control activities: Absorption, Adsorption, Damming, Diking, Dilution, Diversion, Retention, Remote Valve Shut Off, Vapor Dispersion, Vapor Suppression. [6.6.4.1 (3)]

Skill: The Candidate, given a scenario by the evaluator, shall demonstrate how to mitigate a hazardous environment using vapor dispersion techniques.

Did the candidate, as instructed, demonstrate competency in the following: **Deduction Points**

Use ERG to determine hazards & determine if vapor dispersion is appropriate action	_____ 10
Verbalize isolating and evacuating the area according to the ERG guidelines	_____ 10
Verbalize eliminating all ignition sources.	_____ 10
Wears all PPE correctly	_____ FAIL
Stays out of the product.	_____ FAIL
Identifies source of spill or leak and stops leak if it is applicable and safe to do so	_____ 10
Use water spray or fans to control dispersion	_____ 30
Perform initial monitoring test to determine the current degree of hazard, strength, or concentration of the material.	_____ 10
Move vapors away from threatened area	_____ 10
Repeats monitoring process to determine when the dispersion process has accomplished its goal of reducing the hazard to a safe level.	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

MINNESOTA FIRE SERVICE CERTIFICATION HAZ MAT OPERATIONS SKILLS TESTING

SKILL STATION 6J PRODUCT CONTROL – VAPOR SUPPRESSION

Candidate Number _____ Evaluator: _____

Reference: NFPA 472 2008 Edition: 6.6.4.1 (1,3)

Given an incident action plan for a hazardous materials/WMD incident, within the capabilities and equipment provided by the AHJ, the operations level responder assigned to perform product control shall demonstrate control functions set out in the plan and shall meet the following requirements as prescribed by the AHJ:

Using the type of special purpose or hazard suppressing foams or agents and foam equipment furnished by the AHJ, demonstrate the application of the foam(s) or agent(s) on a spill or fire involving hazardous materials/WMD. [6.6.4.1 (1)]

Given the required tools and equipment, demonstrate how to perform the following control activities: Absorption, Adsorption, Damming, Diking, Dilution, Diversion, Retention, Remote Valve Shut Off, Vapor Dispersion, Vapor Suppression. [6.6.4.1 (3)]

Skill: The Candidate, given a scenario by the evaluator, shall demonstrate how to mitigate a hazardous environment using vapor suppression techniques.

Did the candidate, as instructed, demonstrate competency in the following:	<u>Deduction Points</u>
Use ERG to determine hazards & determine if vapor suppression is appropriate action	_____ 10
Verbalize isolating and evacuating the area according to the ERG guidelines	_____ 10
Verbalize eliminating all ignition sources.	_____ 10
Wears all PPE correctly	_____ FAIL
Stays out of the product.	_____ FAIL
Identifies source of spill or leak and stops leak if it is applicable and safe to do so	_____ 10
Perform initial monitoring test to determine the current degree of hazard, strength, or concentration of the material.	_____ 10
Approach spill from uphill and upwind side	_____ 10
Set nozzle to correct pattern (GPM and flow, if applicable)	_____ 10
Use correct application procedure (banked, roll down, rain down)	_____ 10
Did not disturb foam blanket	_____ 10
Repeats monitoring process to determine when the suppression process has accomplished its goal of reducing the hazard to a safe level.	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

MINNESOTA FIRE SERVICE CERTIFICATION HAZ MAT OPERATIONS SKILLS TESTING

SKILL STATION 7

AIR MONITORING

Candidate Number _____

Evaluator: _____

Reference: NFPA 472 2008 Edition: 6.7.4.1

Given a scenario involving hazardous materials/WMD and detection and monitoring devices provided by the AHJ, the operations level responder assigned to perform air monitoring and sampling shall demonstrate the field test and operation of each device and interpret the readings based on local procedures.

Skill: The candidate, given a scenario by the evaluator, will determine the appropriate air monitoring device/detector and demonstrate proper operation.

Did the candidate, as instructed, demonstrate competency in the following: **Deduction Points**

Use ERG to determine hazard (s)	_____ 10
Verbalize isolating and evacuating the area according to the ERG guidelines	_____ 10
Verbalize eliminating all ignition sources.	_____ 10
Wears all PPE correctly	_____ FAIL
Stays out of the product.	_____ FAIL
Identifies source of spill or leak and stops leak if it is applicable and safe to do so	_____ 10
Select equipment suitable for detecting or monitoring solid, liquid, or gaseous material	_____ 20
Describe/demonstrate capabilities and limitations of detector selected	_____ 20
Describe/demonstrate field testing, operation and maintenance of detector selected	_____ 10
Describe/demonstrate decontamination process/procedure for detector selected	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

MINNESOTA FIRE SERVICE CERTIFICATION HAZ MAT OPERATIONS SKILLS TESTING

SKILL STATION 8

VICTIM RESCUE AND RECOVERY

Candidate Number _____

Evaluator: _____

Reference: NFPA 472 2008 Edition: 6.8.4.1 (1-5)

Given a scenario involving a hazardous material/WMD, the operations level responder assigned to victim rescue and recovery shall perform the following tasks:

Skill: The candidate, given a scenario by the evaluator, will demonstrate safe and proper victim recovery and rescue from hazardous materials environments.

Did the candidate, as instructed, demonstrate competency in the following:

Deduction Points

Describe safe rescue methods for ambulatory and non ambulatory patients	_____ 10
Describe entry team and back-up team responsibilities	_____ 10
List types of equipment needed for search, rescue and recovery operations	_____ 10
Wears required PPE correctly	_____ FAIL
Avoid unnecessary direct contact with contaminant	_____ FAIL
Demonstrate one and two person walking assist method	_____ 10
Demonstrate two person extremity, seat, backboard or chair carry	_____ 20
Designate a victim decontamination area	_____ 20
Demonstrate decontamination of a non ambulatory victim	_____ 10
Demonstrate providing basic EMS care during decontamination	_____ 10

Total Points Possible 100

Total Deductions _____

Score _____

MINNESOTA FIRE SERVICE CERTIFICATION HAZ MAT OPERATIONS SKILLS TESTING

SKILL STATION 9

ILLICIT LAB PLAN

Candidate Number _____

Evaluator: _____

Reference: NFPA 472 2008 Edition: 6.9.4.1, 6.9.4.1.1 (1-5) & 6.9.4.1.2 (1, 2)

Given scenarios involving an illicit drug/WMD laboratory operation involving hazardous materials/WMD, the operations level responder assigned to respond to illicit laboratory incidents shall implement or oversee the implementation of the selected response options safely and effectively. [6.9.4.1, 6.9.4.1.1 (1-5)]

Given a simulated illicit drug/WMD laboratory entry operation, the operations level responder assigned to respond to illicit laboratory incidents shall demonstrate methods of identifying the following during reconnaissance operations: [6.9.4.1.2 (1, 2)]

Skill: The candidate, given a scenario by the evaluator, will describe and/or demonstrate the following:

Did the candidate, as instructed, demonstrate competency in the following:	<u>Deduction Points</u>
Describe clues for identifying an illicit lab	_____ 20
Identify law enforcement agencies that could be involved	_____ 20
Describe key precautions when planning and implementing a response	_____ 20
Describe safety roles fire might be asked to provide to law enforcement	_____ 20
Describe additional needed procedures for decontamination of an exposed suspect	_____ 20

Total Points Possible 100

Total Deductions _____

Score _____