



Hazardous Materials Operations National Certification

Certification Preparation Guide

Referenced to:

NFPA 470, Chapter 7, 9.2 & 9.6, 2022 Edition

Referenced to:

NFPA 470, Chapter 7, 9.2, & 9.6, 2022 Edition

Copies of this document may be downloaded from: <https://kupce.ku.edu/kufire-firefighter-certification>

This Study Guide is provided at no cost to the user by the Kansas Fire & Rescue Training Institute as a service to the firefighters of Kansas.

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Dear Certification Candidate,

Welcome to the National Firefighter Certification Program!

The Kansas Fire & Rescue Training Institute is accredited by the International Fire Service Accreditation Congress (IFSAC) and by the National Board on Fire Service Professional Qualifications (NBFSPQ - also known as "Pro Board"). These accreditation agencies establish rules and standards to follow in the administration, recordkeeping, and providing of National Certification for the fire service. Through this accreditation, Kansas Fire & Rescue Training Institute is authorized to issue accredited National Certifications to individuals meeting the requirements of selected national standards.

Kansas Fire & Rescue Training Institute's role in the process is to maintain testing materials and a fair system of administering certification exams.

This National Certification Preparation Guide was specifically designed to help you prepare for the examination process ahead. This guide gives reading references for the written exam and the skills exam. By using this guide, you will be looking at the same pages the test writer was looking at when they wrote the test questions and developed the skills evaluation sheets.

Our Coordinators and Evaluators are here to observe your skills and knowledge – they will not help you pass the test.

Our staff and evaluators will treat you with respect and professionalism. Our goal is that you complete the testing process with satisfactory performance and earn your National Certification.

Good luck,

KFRTI Staff

National Certification

National Certification is a professional credential that verifies your proficiency in the level to which you were/are certified. Kansas certifications do not expire. If you are moving to another state, you should contact the certification entity in that state to find out if your National Certification from Kansas is recognized in that state.

Certification Program Mission

This mission of the National Certification Program is to maintain an accredited system for Kansas fire service members to earn National Fire Service Certification professional credentials.

Certification Program Values and Principles

In the conduct of this program, the Kansas Fire & Rescue Training Institute uses the values listed below to guide our professional conduct; they form the foundations and parameters of this program.

- ✘ We hold in high regard honesty and integrity in ourselves and those we serve.
- ✘ Kindness and professionalism guide our instructors and our evaluators.
- ✘ We respect the fire and emergency service and those who serve in it.
- ✘ Transparency of our system, processes, and policies is paramount.
- ✘ The certification standards drive fair evaluation and testing.
- ✘ We value our role as the provider and protector of the national certification program's credibility.

Academic Integrity

We hold staff (including part-time) and certification candidates to identical ethical standards. We expect professional behavior at all times. Any incident of academic misconduct by a candidate, will invalidate their test results, forfeit their certification fee, and may subject them to suspension from the certification process for one year.

Academic misconduct includes cheating, plagiarism, falsification of records, unauthorized possession of examinations, intimidation, and/or other actions that may improperly affect the evaluation of a candidate or assisting others in any such act.

Our policy on academic misconduct is that of "zero tolerance."

The University of Kansas prohibits discrimination. Specifically, the University of Kansas prohibits discrimination on the basis of race, color, ethnicity, religion, sex, national origin, age, ancestry, disability, status as a veteran, sexual orientation, marital status, parental status, gender identity, gender expression, and genetic information in the University's programs and activities. Retaliation is also prohibited by University policy.

How to Use the Certification Preparation Guide

This National Certification Preparation Guide is specifically designed to help you prepare for the examination process ahead. This guide provides reading references for the written exam and the skills exam.

We have included information in this guide that will help you achieve the professional credential that is Fire Service National Certification. There are a few key elements in preparing for the National Certification Exam. They are: 1) Take some time between the end of your course and the certification exam to focus on studying for the exam. 2) Use this Preparation Guide to help focus on the requirements of the National Standard and your study time.

STEP 1: *Review the Administrative information in front of this Preparation Guide.*

- ✘ We have included some important information about the program and the steps of certification. Please take a few minutes and review these pages.

STEP 2: *Review the Reading Reference Pages*

The Reading Reference pages are arranged by Job Performance Requirements (JPRs), which are determined by the correlating NFPA standard.

- ✘ Read and study the pages listed in the written exam reading pages.
- ✘ By reading these pages, you are reading the same pages the test developer was when they were writing test questions.

STEP 3: *Review the Skill Evaluation Sheets in this Certification Guide.*

- ✘ Take note of the Instructions to the Candidate (grey boxes) on each Skill Sheet. These are the instructions that the evaluator will give to you in each station before you test.
- ✘ Skills sheet references take you back to the reference manual to explain the skill. You will be graded only on those items listed on the skill evaluation sheets. Use these in your practice and exam preparations.

STEP 4: *Read & Review, Read & Review, Read & Review, and Practice, Practice, Practice!*

- ✘ Don't practice until you do it right; practice until you can't do it wrong!

STEP 5: *Get a good night's rest before the exam.*

- ✘ You can be tired in any of three ways: Mentally, Physically, and Emotionally. If you are tired in any of these ways, it will make you tired in ALL of them.
- ✘ Save the party for after the exam...get a good night's rest....eat a good breakfast (if you test in the morning)...easy on the sugar and caffeine...and relax!

GOOD LUCK!

Note:

If you are exploring National Certification and haven't taken a course specifically for the level of certification you are seeking, we STRONGLY suggest that you start the process by taking a course. Under certain circumstances, you may challenge some certification exams. Persons who take a course first do much better on the exam. Contact the Kansas Fire & Rescue Training Institute for more information.

National Certification Application & Processes

Application:	Applications are required before testing. Visit the KFRTI web page (https://kupce.ku.edu/kufire-firefighter-certification) to download the application.
Registration for Exams:	Pre-registration is required. Go to the KFRTI online registration point to register and pay certification fee. (https://www.enrole.com/kupce/jsp/index.jsp?categoryId=10019)
Certification Fees:	Certification fees must be paid before the exam date. Individuals are required to pay fees online when registering for an exam. An organization may request to be billed, this billing process requires a Purchase Order from that organization stating each candidate's name. To arrange billing, call the KFRTI at 1-866-804-8841. Billing cannot be processed online.
Number of Attempts:	Candidates are allowed two attempts per test per application, and all testing must be completed within one year of the first testing activity. Additional testing requires a new application and fee.
Picture I.D. Required:	A government issued photo I.D. is required at the test site.
Accommodations:	The Kansas Fire and Rescue Training Institute, as part of the University of Kansas, adheres to the requirements of the Americans with Disabilities Act. Certification candidates requesting accommodations must submit the request in writing two (2) weeks in advanced of testing. The request must include a copy of the diagnosis by a qualified professional. Upon receipt of an accommodations request, the Kansas Fire and Rescue Training Institute will review the request, and then notify the requestor of the proposed accommodations.

What if I Fail the Exam?

Failure of any required component (not submitting a currently valid certification or licensure KBEMS number, less than 70% on the written exam or less than 100% of the skills exam) constitutes a failed attempt.

- Candidates may re-test on any component of the exam (written, or skills exams) and resubmit current and valid KBEMS medical credentials.
- Candidates must register to take a retest at another test site. No walk-in testing is allowed. To register for a retest, call the Institute at (toll free) 866-804-8841.
- Candidates are allowed two (2) attempts at any portion of the exam. If a candidate fails any portion of the exam twice, a new application and fee is required. The new application starts the certification process over, and all portions of testing will have to be retested.
- The Institute strongly recommends that candidates study or seek additional training before attempting the exam for a third attempt.

Time to Complete Certification

Candidates have one year from the date of their first testing action to complete their certification. Retaking the written test, retesting skills, submitting verification forms, and all other requirements must be completed within that year. Failure to complete the certification within that year will invalidate all previous testing. The candidate will be required to submit a new application, new fee, and new verification forms to retest for the written and skills tests before certification.

National Certification Requirements for Hazardous Materials Operations

Self-Contained Breathing Apparatus Mask Fit Test Compliance

Due to the potentially hazardous atmospheres that firefighters operate in, SCBA fit test compliance is required as part of the certification process. A copy of the required form on which Fit Test Compliance can be documented is attached at the end of this document.

Hazardous Materials Operations Local Verification Form:

This form verifies requirements that cannot be tested on a written exam and requirements of the standard that are based on local fire department practices and policies.

This form documents:

- a. The candidate's SCBA mask fit test has been performed.
- b. Medical requirements established by NFPA Standard on Comprehensive Occupational Medical Program for Fire Departments, Chapter 6, Subsection 6.1.1, as determined by the medical authority of the fire department have been met.
- c. Physical fitness requirement for entry-level personnel shall be developed and validated by the fire department.
- d. Minimum emergency medical care performance capability of entry-level personnel developed and validated by the fire department (must include bleeding control, CPR, infection control and shock management).

Hazardous Materials Operations Certification Exam

Written Exam:

- a. The Hazardous Materials Operations Written Exam includes 100 multiple choice and true/false questions.
- b. Candidates are allowed two (2) hours to complete the exam.
- c. Answer sheets and pencils are provided. "Bubble Sheet" answer sheets that candidates fill in small circles to indicate answer a, b, c, d, or e as the correct answer are used.
- d. No cell phones, radios, or other electronic devices are allowed in the room while an exam is being administered (an exception for radios that allow "on-duty" personnel to receive alarms may be granted under special circumstances).
- e. A 70% minimum score is required to pass the written exam.

Skills Exam:

- a. The Skills Exam includes individual and team skills. Depending on the skill tested, candidates are tested individually, or as a member of a team.
- b. Groups of 4 to 6 candidates are formed for the purpose of skills testing. Individual candidates may not pre-select crews or make up crews of their own choosing. Teams (for testing purposes) are appointed by the Exam Coordinator at the test site.
- c. When testing a member of a team, evaluation includes both individual performance and performance as a member of the team.
- d. Skills Exams typically include 4 to 6 stations. Each station may include multiple skills. All Haz Mat Operations Skills Exams will include no fewer than eight (8) skills total. Many exams will include more than 8 skills.
- e. You will be given up to two attempts at each station. The two attempts per station make up your first overall attempt at the skills exam.

- f. Skills exams require 100% to pass in all stations.
- g. No same-day skills re-testing allowed

What if I Fail the Exam?

Failure of any required component (not submitting a signed Local verification form, not submitting a completed Live Firefighting Verification form, less than 70% on the written or less than 100% of the skills exam) constitutes a failed attempt.

- a. Candidates may re-test on any component of the exam (written, or skills exams) and resubmit an incomplete verification form.
- b. Candidates must register to take a retest at another test site. No walk-in testing is allowed. To register for a retest, call the Institute at (toll free) 866-804-8841.
- c. Candidates are allowed two (2) attempts at the exam. If a candidate fails the exam twice and wishes to take the exam again, a new certification fee payment is required. The new fee will allow the candidate two more attempts at the test.
- d. The Institute strongly recommends that candidates study and/or seek additional training before attempting the exam for a third attempt.

Time to Complete Certification

Candidates have one year from the date of their first testing action to complete their certification. Written and skills testing and retesting, verification forms, and all other requirements must be completed within that year. Failure to complete the certification within that year will invalidate all previous testing and the candidate will be required to submit a new application, new certification fee payment, and new verification forms. The candidate must also retest and pass the written and skills exams before being granted national certification.

Hazardous Materials Operations - Written Exam Study/Preparation Information and Materials

Haz Mat Operations Prerequisites

All candidates are required to have certified for NFPA 470, Chapter 5 (Haz Mat Awareness) prior to completing NFPA 470, Chapter 7 (Haz Mat Operations), 9.2 (Personal Protective Equipment), and 9.6 (Product Control) national certification. Certifications from other entities will be evaluated for reciprocity as per the KF&RTI's Reciprocity policy.

Haz Mat Operations Written Exam: 100 multiple choice questions.

Time allowed to take exam: Two (2) hours.

Passing Score: 70% (or higher)

Answer sheets and pencils are provided. "Bubble Sheet" answer sheets that candidates fill in small circles to indicate answer a, b, c, d, or e as the correct answer are used.

No cell phones, radios, or other electronic devices are allowed in the room while an exam is being administered (an exception for radios that allow "on-duty" personnel to receive alarms may be granted under special circumstances).

Reading Reference/Text

The Hazardous Materials Awareness exam is referenced to the IFSTA, Hazardous Materials for First Responders, 6th Edition, textbook.

National Standard test is based on: *NFPA 470 Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 2022 Edition.*

Written Exam Study Pages (Test questions are taken from these same pages)

Section Subject & NFPA 470, (Chapter 7) JPR Number	Reading/Study Pages
7.2.1 Identify the scope of the problem	Pages: 125-172, 179-231, 234-236, 239-271, 279-287
7.3.1 Identify the action options	Pages: 139-158, 241-272, 279-291, 293, 308-326, 339-347, 361-376, 379-393, 397
7.4.1 Perform assigned tasks	Pages: 139-158, 239-241, 271-273, 276, 297-326, 335, 339-350, 432-436, 447-453
7.5.1 Perform emergency decontamination	Pages: 139-158, 339-350
7.6.1 Evaluate and report the progress	Pages: 326-331, 335-336
<hr/> (Chapter 9.2) JPR Number <hr/>	
9.2.1 Select, don, work in, and doff approved PPE	Pages: 353-394, 397-405
<hr/> (Chapter 9.6) JPR Number <hr/>	
9.6.1 Perform product control techniques	Pages: 497-525, 528-537

***Hazardous Materials Operations Skills Exam
Study/Preparation Information and Materials***

Introduction to Hazardous Material Skills Exam: ***The Skills Exam includes 14 skills at five stations and requires 100% to pass.***

Time allowed to take exam: The overall exam is not timed; however, individual skills and/or stations may include a maximum/minimum time (consistent with reasonable fire ground time/operations).

Passing Score: Skills exams require 100% on all stations and skills. Up to two attempts will be given for each skills and/or station being tested make up your first attempt at the skills exam.

No cell phones, radios or other electronic devices are allowed in the room while an exam is being administered (an exception for radios that allow “on-duty” personnel to receive alarms may be granted under special circumstances).

Reading Reference/Text

The Hazardous Materials Awareness Exam is referenced to the IFSTA, Hazardous Materials for First Responders, 6th Edition Textbook.

National Standard test is based on *NFPA 470 Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, 2022 Edition*

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Hazardous Materials Operations Skill Evaluation Sheets

This Skills Evaluation Sheet is the exact grading sheets that evaluators use during the Skills Test. This sheet has been edited for the explicit use of grading skills and should not be used to learn the skills.

This Skill Evaluation Sheet has been included in this Preparation Guide for the purpose of guiding you as final preparations are made (and practice performed) for the Qualification Exam.

Grading for the Skills Evaluation requires 100% of the steps listed on the sheet be performed. You will not be evaluated on steps of the skills that are not listed on these evaluation sheets.



Hazardous Materials Operations Skills Set: Identify Likely Outcomes Item 1

Reference: NFPA 470, 2022 Edition, Chapter 7, Job Performance Requirement 7.2.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheets, Skill Sheet 5-1

Evaluator Equipment Required: Safety Data Sheets; Photo of facility and container

Candidate Equipment Required: None

Evaluator's Instructions to Candidates

At this station, you will be required to recognize and identify the hazardous materials/WMD and hazards involved in a hazardous materials/WMD incident. You will be provided with an ERG and a photo of the overturned vehicle. You will identify the hazardous materials and/or WMD involved. You will identify the indicators that led you to that conclusion. You may use the provided reference documents.

This is NOT a timed event, but you must successfully complete it in a reasonable fireground time. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

Analyze a Hazardous Materials Scenario at a Facility to Identify Likely Outcomes.

1. Identify type of facility and type of container involved.
2. Meet with facilities representative to determine incident location and access.
3. Collect and determine hazard information using approved sources.
4. Identify conditions surrounding the incident.
5. Communicate with facility representatives to identify type of release, spill, or leak.
6. Describe any potential behavior of material and containers.
7. Describe likely outcomes associated with identified behavior and surrounding conditions.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature _____

Date: _____



Hazardous Materials Operations Skills Set: Identify Potential Hazards Item 2

Reference: NFPA 470, 2022 Edition, Chapter 7, Job Performance Requirement 7.2.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 5-2

Evaluator Equipment Required: Photo of incident scene

Candidate Equipment Required: Emergency Response Guidebook

Evaluator's Instructions to Candidates

At this station, you will be required to recognize and identify the hazardous materials/WMD and hazards involved in a hazardous materials/WMD incident. You will be provided with an ERG and a photo of the overturned vehicle. You will identify the actions available at this hazardous materials incident to include response objectives, action options, safety precautions, and personal protective equipment (PPE). You will identify the indicators that led you to that conclusion. This is NOT a timed event, but you must successfully complete it in a reasonable fireground time. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

Identify Potential Hazards at a Hazardous Materials Incident

1. Identify type of container involved.
2. Collect and determine hazard information using approved reference sources.
3. Identify type of release, spill, or leak.
4. Identify location of release and ensure that responders are uphill, upwind, and upstream.
5. Identify conditions surrounding the incident.
6. Communicate with applicable representatives or operators.
7. Describe any potential behavior of material and containers.
8. Describe likely outcomes associated with identified behavior and surrounding conditions.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
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Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____

Date: _____



Reference: NFPA 470, 2022 Edition, Ch 7, Job Performance Requirement 7.3.1
IFSTA, Hazardous Materials for 1st Responders, 6th ed © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 7-1

Evaluator Equipment Required: Photo of incident scene

Candidate Equipment Required: Emergency Response Guidebook, Safety Data Sheet

Evaluator's Instructions to Candidates

At this station, you will be required to identify strategies and tactics at a hazardous materials/WMD incident. You will be provided with an ERG or Safety Data Sheet, and a photo of the overturned vehicle. You will identify strategies based on the incident and resources, identify tactics based on response objectives and available resources. You will also identify safety precautions, including emergency decon needs and determine suitable PPE for the incident.

This is a timed event. Expected time to complete skill(s) is 10 minutes. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

Identify Strategy and Tactics Hazardous Materials Incident

1. Complete incident size-up.
2. Identify strategies based on scope of the incident and available resources.
3. Identify tactics based on response objectives and available resources.
4. Identify safety precautions, including emergency decon needs.
5. Determine if available PPE is suitable for incident conditions.
Complete assignment(s).

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
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Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____

Date: _____



Reference: NFPA 470, 2022 Edition, Chapter 7, JPR's 7.4.1, 7.6.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheets, Skill Sheet

Evaluator Equipment Required: 8-1 Emergency Response Guide; Photo of Overturned Vehicle NFPA-

Candidate Equipment Required: Compliant Personal Protective Clothing Ensemble w/SCBA?

Evaluator's Instructions to Candidates

At this station, you will be required to provide scene control at a hazardous materials/WMD incident. You will be provided with an ERG and a photo of the overturned vehicle, assignment with limited potential for contact with a hazardous material, known scope of the incident, approved tools and equipment, and approved personal protective equipment. You will identify the hazardous materials and/or WMD involved. You will identify the indicators that led you to that conclusion. You may use the provided reference documents.

This is a timed event. Expected time to complete skill(s) is 10 minutes. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items**Provide Scene Control at a Hazardous Materials Incident**

1. Complete incident size-up.
2. Take protective actions.
3. Establish an incident management system.
4. Develop and implement an Incident Action Plan (IAP).
5. Establish and ensure scene control.
6. Select and use appropriate personal protective equipment.
7. Protect exposures and personnel.
8. Ensure safety procedures are followed.
9. Minimize or avoid hazards.
10. Identify potential evidence.
11. Preserve potential evidence.
12. Reevaluate the scene and adjust as necessary.
13. Complete assignment and appropriate documentation.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
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Station: Pass ☐ Fail ☐

Candidate's name: _____

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____

Date: _____



Reference: NFPA 470, 2022 Edition, Chapter 7, Job Performance Requirement 7.6.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheets, Skill Sheet 8-2

Evaluator Equipment Required: Emergency Response Guide; Photo of Overturned Vehicle Incident Action

Candidate Equipment Required: Plan (IAP)

Evaluator's Instructions to Candidates

At this station, you will select appropriate PPE to address a hazardous materials/WMD incident. You will be provided with an ERG, a photo of the overturned/leaking vehicle, assignment with limited potential for contact with a hazardous material, known scope of the incident, approved tools and equipment, and a list of approved personal protective equipment. You will select the appropriate PPE to address the scenario provided. You will identify the indicators that led you to that conclusion. You may use the provided reference documents.

This is NOT a timed event, but you must successfully complete it in a reasonable fireground time. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

Evaluate Progress at a Hazardous Materials Incident

1. Determine incident status.
2. Review Incident Action Plan (IAP).
3. Evaluate effectiveness of assigned tasks.
4. Determine if action objectives are being met.
5. Communicate status of assigned tasks using approved communication tools and equipment.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail

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Candidate's name: _____

Station: Pass ☐

Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____

Date: _____



Hazardous Materials Operations Skills Set: Select Appropriate PPE

Item 6

Reference: NFPA 470, 2022 Edition, Chapter 7, JPR 9.2.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 10-1

Evaluator Equipment Required: Emergency Response Guid; Photo of Overturned/Leaking Vehicle NFPA-

Candidate Equipment Required: Compliant Personal Protective Clothing Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will select appropriate PPE to address a hazardous materials/WMD incident. You will be provided with an ERG, a photo of the overturned vehicle, assignment with limited potential for contact with a hazardous material, known scope of the incident, approved tools and equipment, and a list of approved personal protective equipment. You will select the appropriate PPE to address the scenario provided. You will identify the indicators that led you to that conclusion. You may use the provided reference documents.

This is NOT a timed event, but you must successfully complete it in a reasonable fireground time. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

Select appropriate PPE to address a Hazardous Materials Scenario.

1. Determine hazards.
2. Determine effectiveness of available protective clothing based on its uses and limitations.
3. Select an appropriate PPE ensemble for the mission-specific assignment.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____

Date: _____



Hazardous Materials Operations Skills Set: Don, Work in, and Doff Structural Firefighting Personal Protective Equipment

Item 7

Reference: NFPA 470, 2022 Edition, Chapter 9, Job Performance Requirement 9.2.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 10-2

Evaluator Equipment Required: Emergency Response Guide; Photo of Overturned Vehicle NFPA-

Candidate Equipment Required: Compliant Personal Protective Clothing Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will perform gross decontamination on the scene of a hazardous materials/WMD incident. You will be provided with an ERG, a photo of the overturned vehicle, assignment with limited potential for contact with a hazardous material, known scope of the incident, approved tools and equipment, and a list of approved personal protective equipment. You will select the appropriate PPE to address the scenario provided. You will identify the indicators that led you to that conclusion. You may use the provided reference documents.

This is NOT a timed event, but you must successfully complete it in a reasonable fireground time. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

Don, work in, and doff structural firefighting personal protective equipment

1. Perform a visual inspection of PPE and SCBA for damage or defects.
2. Don protective trousers and boots.
3. Don protective hood, pulling hood down around neck and exposing head.
4. Don protective coat.
5. Don SCBA. Ensure that the cylinder valve is fully open and that all straps are secured.
6. Don SCBA facepiece and ensure a proper fit and seal.
7. Pull hood up completely so that facepiece straps and skin are not exposed.
8. Don helmet and secure.
9. Don inner gloves.
10. Don gloves.
11. Ensure that all fasteners, straps, buckles, etc., are fastened.
12. Ensure that skin is not exposed.
13. Attach SCBA regulator to facepiece and make sure SCBA is functioning properly.
14. Perform pre-entry checks according to AHJ's SOPs.
15. Perform work assignment.
16. Undergo decontamination per AHJ's SOPs.
17. Doff PPE in reverse order according to AHJ's SOPs, avoiding contact with outer ensemble or surfaces that may be contaminated.
18. Conduct a post-entry inspection of PPE for damage or defects according to AHJ's SOP's and document finding.
19. Document findings and launder PPE per AHJ SOPs.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature _____

Date: _____



Hazardous Materials Operations Skills Set: Perform Gross Decontamination

Item 8

Reference: NFPA 470, 2022 Edition, Chapter 7, Job Performance Requirement 7.4.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 9-1 Emergency

Evaluator Equipment Required: Response Guide; Photo of Overturned Vehicle NFPA-Compliant

Candidate Equipment Required: Personal Protective Clothing Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will perform emergency decontamination at the scene of a hazardous materials/WMD incident. You will be provided with an ERG, a photo of the overturned vehicle, an assignment, scope of the problem; policies and procedures; and approved tools, equipment, and PPE for emergency decontamination, needs are identified, approved PPE is selected and used, exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized, emergency decontamination is set up and implemented, and victims and responders are decontaminated. You will identify the indicators that led you to that conclusion. You may use the provided reference documents.

This is NOT a timed event, but you must successfully complete it in a reasonable fireground time. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

Perform Gross Decontamination

1. Proceed to decontamination line.
2. Place tools and equipment in the designated area for decon.
3. Use low-pressure water spray to gross wash.
4. Doff PPE while continuing to breathe air from SCBA.
5. Wash, using soap and water or disposable towels to clean the head, face, neck, hands, and wrists before moving to rehab area.
6. Ensure appropriate disposal or decon of PPE.
7. Complete required reports and supporting documentation.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____

Date: _____



Hazardous Materials Operations Skills Set: Perform Emergency Decontamination

Item 9

Reference: NFPA 470, 2022 Edition, Chapter 7, Job Performance Requirement 7.5.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheets, Skill Sheet

Evaluator Equipment Required: 9-2 Emergency Response Guide; Photo of Overturned Vehicle NFPA-

Candidate Equipment Required: Compliant Personal Protective Clothing Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will perform technical decontamination in support of entry operations and for ambulatory victims at a hazardous materials/WMD incident, given a hazardous materials/WMD incident that requires technical decontamination; an assignment in an IAP; scope of the problem; policies and procedures for technical decontamination; approved tools, equipment, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or SOP's, a technical decontamination method is selected, set up, implemented, evaluated, and terminated; approved PPE is selected and used; exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized; personnel, tools, and equipment are decontaminated; and all reports and documentation of technical decontamination operations are completed. This is NOT a timed event, but you must successfully complete it in a reasonable fireground time. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
Perform Emergency Decontamination				
1. Analyze incident and determine emergency decontamination is required.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Select an emergency decontamination method.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Ensure that all responders involved in decontamination operations are wearing appropriate PPE for performing emergency decontamination operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Ensure emergency decontamination is set up in a safe area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For contaminated personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Instruct contaminated personnel to advance to the emergency decontamination area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Perform gross decontamination removal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Instruct personnel to remove PPE/clothing, minimizing spread of contaminants.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Keep track of personal belongings using an approved tracking system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Instruct personnel to perform a quick head-to-toe rinse, wash, and rinse.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Evaluate effectiveness of decon using monitoring methods. If contamination is detected, personnel must be redirected through the decon process.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Instruct personnel to dry off and provide them with appropriate garment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Send personnel for assessment, first aid, and medical treatment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Brief personnel or hospital and ambulance personnel about the contaminant.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Complete required reports and supporting documenttion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For contaminated tools, equipment, and PPE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Identify which tools, equipment, and PPE require decontamination and which require disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Skills Set: Perform Emergency Decontamination

16. Appropriately package and label any tools, equipment, or PPE that require disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Perform emergency decontamination on tools, equipment, and PPE.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Evaluate effectiveness of decontamination using appropriate monitoring/ detection method. If contamination is detected, tools, equipment, and/or PPE must be put through the decon process again.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. Inspect tools, equipment, and PPE to ensure that they are ready to return to service.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Appropriately tag any items that require additional care before they can be returned to service.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Return items to service as appropriate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Complete required reports and supporting documenttion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____
Notes (please include comments/explanation for failure):

Station: Pass ☐ Fail ☐

Evaluator's Signature: _____ Date: _____



Hazardous Materials Operations Skills Set: Don, Work in, and Doff Vapor Protection (Class 1) Ensemble

Item 10

Reference: NFPA 470, 2022 Edition, Chapter 9, Job Performance Requirement 9.2.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 10-3

Evaluator Equipment Required: Emergency Response Guide; Photo of Haz Mat Incident

Candidate Equipment Required: NFPA-Compliant Vapor Protective Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will select appropriate PPE to address a hazardous materials/WMD incident. You will be provided with an ERG, a photo of the overturned vehicle, assignment with limited potential for contact with a hazardous material, known scope of the incident, approved tools and equipment, and a list of approved personal protective equipment. You will select the appropriate PPE to address the scenario provided. You will identify the indicators that led you to that conclusion. You may use the provided reference documents.

This is a timed event. Expected time to complete skill(s) is 5 minutes. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
Don, work in, and doff vapor protection (Class 1) ensemble				
1. Ensure pre-entry medical monitoring is performed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Perform a visual inspection of PPE and SCBA for damage or defects.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Ensure the ensemble is the correct size.				
4. Ensure zipper is in good working order.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Remove objects that could damage ensemble.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Don ensemble to the waist.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Don work boots.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Pull ensemble leg opening over the top of the work boots if appropriate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Don SCBA.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Don the SCBA facepiece and ensure a proper fit and seal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Attach SCBA regulator to facepiece and ensure proper operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Breathe through respirator and ensure that respirator is functioning properly and perform positive and negative pressure test.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Don inner protective gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Pull ensemble hood up completely so that facepiece straps and skin are not exposed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Perform pre-entry checks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Perform work assignment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Undergo decontamination, if appropriate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Doff PPE in reverse order of donning while continuing to breathe air from the respirator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Don, work in, and doff vapor protection (Class 1) ensemble

19. Remove SCBA facepiece, shutoff the cylinder valve, and disarm PASS.
20. Undergo post-exposure monitoring and surveillance.
21. Conduct a post-entry inspection of PPE for damage or defects.
22. Document findings.
23. Return to proper storage.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____

Notes (please include comments/explanation for failure): _____

Station: Pass ☐ Fail ☐

Evaluator's Signature: _____

Date: _____



**Hazardous Materials Operations Skills Set:
Don, Work in, and Doff a Liquid Splash Protection
(Class 2)Ensemble**

Item 11

Reference: NFPA 470, 2022 Edition, Chapter 9, Job Performance Requirement 9.2.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 10-4

Evaluator Equipment Required: Emergency Response Guid; Photo of Haz Mat Incident

Candidate Equipment Required: NFPA-Compliant Liquid Splash Protective Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will select appropriate PPE to address a hazardous materials/WMD incident. You will be provided with an ERG, a photo of the overturned vehicle, assignment with limited potential for contact with a hazardous material, known scope of the incident, approved tools and equipment, and a list of approved personal protective equipment. You will select the appropriate PPE to address the scenario provided. You will identify the indicators that led you to that conclusion. You may use the provided reference documents.

This is a timed event. Expected time to complete skill(s) is 5 minutes. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
Don, work in, and doff a liquid splash protection (Class 2) ensemble				
1. Perform a visual inspection of PPE and SCBA for damage or defects.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Don Class 2 ensemble and secure closures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Don work boots.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Pull ensemble leg opening over the top of the work boots.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Don SCBA.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Don the SCBA facepiece and ensure a proper fit and seal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Pull ensemble hood up completely so that facepiece straps and skin are not exposed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Breathe through respirator and ensure that respirator is functioning properly and perform positive and negative pressure test.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Don inner protective gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Don outer protective gloves and pull ensemble sleeve over the outside of the gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Perform pre-entry checks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Perform work assignment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Undergo decontamination, if appropriate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Doff ensemble in reverse order of donning while continuing to breathe air from the respirator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Don, work in, and doff a liquid splash protection (Class 2) ensemble

- 15. Remove SCBA facepiece, shutoff the cylinder valve, and disarm PASS.
- 16. Undergo post-exposure monitoring and surveillance.
- 17. Conduct a post-entry inspection of PPE for damage or defects.
- 18. Document findings.
- 19. Return to proper storage.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____ Date: _____



Hazardous Materials Operations Skills Set: Perform Absorption/Adsorption

Item 12

Reference: NFPA 470, 2022 Edition, Chapter 9, Job Performance Requirement 9.6.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 13-2

Evaluator Equipment Required: Emergency Response Guide; Photo of Incident Scene

Candidate Equipment Required: NFPA-Compliant Personal Protective Clothing Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or SOP's, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or SOP's approved PPE is selected and used; exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.

This is a timed event. Expected time to complete skill(s) is 10 minutes. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
Perform Absorption/Adsorption				
1. Select the appropriate product control technique to confine/contain the release with limited risk of personal exposure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders involved are wearing appropriate PPE for performing absorption/adsorption operations & that appropriate hand tools are selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Select a location to perform the absorption/adsorption operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Select the most appropriate sorbent or adsorbent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Deploy the sorbent/adsorbent in a manner that most efficiently controls the spill.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Upon mitigation of the incident place any contaminated material, such as clothing, in an approved container for transportation to a disposal location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Seal and label the container and document appropriate information for department records.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Decontaminate tools.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Advance to decontamination line for personal decontamination.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Complete required reports and supporting documentation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____
Notes (please include comments/explanation for failure): _____

Station: Pass ☐ Fail ☐

Evaluator's Signature: _____

Date: _____



Hazardous Materials Operations Skills Set: Perform Diking Operations

Item 13

Reference: NFPA 470, 2022 Edition, Chapter 9, Job Performance Requirement 9.6.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 13-4

Evaluator Equipment Required: Emergency Response Guide; Photo of Incident Scene

Candidate Equipment Required: NFPA-Compliant Personal Protective Clothing Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or SOP's, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or SOP's approved PPE is selected and used; exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented. This is a timed event. Expected time to complete skill(s) is 30 minutes. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
Perform Diking Operations				
1. Select the appropriate product control technique to confine/contain the release with limited risk of personal exposure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders are wearing appropriate PPE for performing diking operations and that appropriate hand tools have been selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Select a location to efficiently, and safely perform the diking operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Construct the dike in a manner and location that most efficiently controls and directs the spill to a desired location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Upon mitigation of the incident place any contaminated material, such as clothing, in an approved container for transportation to a disposal location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Seal and label the container and document appropriate information for department records.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Decontaminate tools.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Advance to decontamination line for personal decontamination.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Complete required reports and supporting documentation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____

Date: _____



Hazardous Materials Operations Skills Set: Perform Damming Operations

Item 14

Reference: NFPA 470, 2022 Edition, Chapter 9, Job Performance Requirement 9.6.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 13-3

Evaluator Equipment Required: Emergency Response Guide; Photo of Incident Scene

Candidate Equipment Required: NFPA-Compliant Personal Protective Clothing Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or SOP's, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or SOP's approved PPE is selected and used; exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented. This is a timed event. Expected time to complete skill(s) is 30 minutes. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
Perform Damming Operations				
1. Select the appropriate product control technique to confine/contain the release with limited risk of personal exposure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders involved in the control function are wearing appropriate PPE for performing damming operations and that appropriate hand tools have been selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Select a location to efficiently, and safely perform the damming operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Construct the dam in a manner and location that most efficiently controls the spill.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Upon mitigation of the incident place any contaminated material, such as clothing, in an approved container for transportation to a disposal location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Seal and label the container and document appropriate information for department records.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Decontaminate tools.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Advance to decontamination line for personal decontamination.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Complete required reports and supporting documentation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____

Date: _____



Hazardous Materials Operations Skills Set: Perform Vapor Suppression Item 15

Reference: NFPA 470, 2022 Edition, Chapter 9, Job Performance Requirement 9.6.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 13-9

Evaluator Equipment Required: Emergency Response Guide; Photo of Incident Scene

Candidate Equipment Required: NFPA-Compliant Personal Protective Clothing Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or SOP's, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or SOP's approved PPE is selected and used; exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.

This is a timed event. Expected time to complete skill(s) is 30 minutes. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
Perform Vapor Suppression				
1. Ensure proper product control technique is chosen.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders, involved in the control function are wearing appropriate PPE for performing vapor suppression operations and that appropriate hand tools have been selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Select a location to efficiently, and safely perform the vapor suppression operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Evaluate the quantity and surface area of the hazardous material that has leaked.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Determine the appropriate type of foam for the type of hazardous material present.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Working as a team, deploy the foam eductor and foam, and advance the hoseline and foam nozzle to a position from which to apply the foam.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Flow hoseline until finished foam is produced at the nozzle.				
8. Apply finished foam in an even layer covering the hazardous material spill area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Upon mitigation of the incident, place any contaminated material, such as clothing, in an approved container for transportation to a disposal location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Seal and label the container and document appropriate information for department records.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Decontaminate tools.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Advance to decontamination line for personal decontamination.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Complete required reports and supporting documentation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____

Date: _____



Hazardous Materials Operations Skills Set: Perform Vapor Dispersion

Item 16

Reference: NFPA 470, 2022 Edition, Chapter 9, Job Performance Requirement 9.6.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Hazardous Materials Operations Skill Sheet 13-8

Evaluator Equipment Required: Emergency Response Guide; Photo of Incident Scene

Candidate Equipment Required: NFPA-Compliant Personal Protective Clothing Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or SOP's, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or SOP's approved PPE is selected and used; exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented. This is a timed event. Expected time to complete skill(s) is 30 minutes. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items

Perform Vapor Dispersion

1. Ensure proper product control technique is chosen.
2. Ensure that all responders, involved in the control function are wearing appropriate PPE for performing vapor dispersion operations and that appropriate hand tools have been selected.
3. Select a location to efficiently, and safely perform the vapor dispersion operations.
4. Working as a team, advance the hoseline to a position to apply agent through vaporcloud to disperse vapors.
5. Constantly monitor the leak concentration, wind direction, exposed personnel, environmental impact, and water stream effectiveness.
6. Upon mitigation of the incident, place any contaminated material, such as clothing, in an approved container for transportation to a disposal location.
7. Decontaminate tools.
8. Advance to decontamination line for personal decontamination.
9. Complete required reports and supporting documentation.

1st Attempt		2nd Attempt	
Pass	Fail	Pass	Fail
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____

Date: _____



Hazardous Materials Operations Skills Set: Perform Remote Valve Shutoff or Activate Emergency Shutoff Device

Item 17

Reference: NFPA 470, 2022 Edition, Chapter 9, Job Performance Requirement 9.6.1
IFSTA, Hazardous Materials for First Responders, 6th edition, © 2022
KFRTI/IFSTA Firefighter I Skill Sheet 13-1

Evaluator Equipment Required: Emergency Response Guide; Photo of Incident Scene

Candidate Equipment Required: NFPA-Compliant Personal Protective Clothing Ensemble w/SCBA

Evaluator's Instructions to Candidates

At this station, you will perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or SOP's, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or SOP's approved PPE is selected and used; exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.

This is a timed event. Expected time to complete skill(s) is 30 minutes. To pass this station you must successfully complete 100% of the steps.

Evaluated Skill Items	1st Attempt		2nd Attempt	
	Pass	Fail	Pass	Fail
Perform Remote Valve Shutoff or Activate Emergency Shutoff Device				
1. Select the appropriate product control technique to confine/contain the release with limited risk of exposure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Ensure that all responders, involved in the control function are wearing appropriate PPE for performing remote valve shutoff operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Identify and locate the emergency remote control valve and/or emergency shutoff device.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Operate the remote control valve and/or emergency shutoff device.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. If necessary, decontaminate tools and advance to decontamination line for personnel decontamination.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Notify the Incident Commander of the completed objective.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Complete required reports and supporting documentation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's name: _____

Station: Pass ☐ Fail ☐

Notes (please include comments/explanation for failure):

Evaluator's Signature: _____

Date: _____



HazMat - Operations Local Verification & Mask Fit Form

NFPA 470 – 2022

Candidate's Name: _____ Date of Birth: _____

Local Verification Requirements

1. 29 CFR 1910.134, Mask Fit Documentation:

The candidate has been successfully fitted to his or her Self-Contained Breathing Apparatus (SCBA) Mask in compliance with 29 CFR 1910.134 within the last twelve (12) calendar months.

2. NFPA 470 – 2022, Mission-Specific Competencies – Personal Protective Equipment: 9.4.1 Demonstrate local procedures for responders undergoing the technical decontamination process.

The candidate has successfully demonstrated the ability to perform technical decontamination of personnel and equipment in accordance with department policies and procedures using department facilities and other ancillary equipment.

This section is to be completed by Fire Chief, Training Chief, or Program Director ONLY

I have reviewed the candidate's file and affirm that the candidate identified above has met the requirements listed in paragraphs 1 through 2 above. All requirements have been successfully conducted and completed per local department protocol and policies. All information listed above can be validated by a written and/or hard copy of the documents maintained by the department.

Typed or Legibly Printed Name of Fire Chief, Training Chief, or Program Director

Signature of Fire Chief, Training Chief, or Program Director

Date: _____ Department / Organization: _____

Department / Organization Phone Number: (_____) _____ - _____

Mail Completed Form To: Kansas Fire & Rescue Training Institute, KU Continuing Education, 1515 St Andrews Drive, Lawrence, KS 66047

June 2024 KFRTI