

WYOMING FIREFIGHTERS CERTIFICATION SYSTEM



WYOMING HAZARDOUS MATERIAL TECHNICIAN STANDARD

**NFPA 472 & OSHA 1910.120
2008 EDITION**

**WYOMING DEPARTMENT OF FIRE PREVENTION
AND ELECTRICAL SAFETY**



16 Firefighter Life Safety Initiatives

1. Define and advocate the need for a cultural change within the fire service relating to safety; incorporating leadership, management, supervision, accountability and personal responsibility. ***From top to bottom the culture of the fire service must change. You can change your behavior today. Lead by example and make a difference – be an agent of change.**
2. Enhance the personal and organizational accountability for health and safety throughout the fire service. *** Each fire service organization must promote safe practices; each individual must have the tools to be safe and adhere to safe practices at ALL TIMES.**
3. Focus greater attention on the integration of risk management with incident management at all levels, including strategic, tactical, and planning responsibilities. *** Learn the concept of "Risk Management," ensure everyone understands the difference between acceptable risk and an unacceptable risk. Develop and implement a system to pre-identify unacceptable risk. GO and NO GO.**
4. All firefighters must be empowered to stop unsafe practices. *** Firefighters must be allowed to identify and report unsafe practices. Be aware of safe practices and look for unsafe ones.**
5. Develop and implement national standards for training, qualifications, and certification (including regular recertification) that are equally applicable to all firefighters based on the duties they are expected to perform. *** Seek state and national certifications at all levels available to your department. Support refresher training, promote teaching new methods and improve skills which are used infrequently.**
6. Develop and implement national medical and physical fitness standards that are equally applicable to all firefighters, based on the duties they are expected to perform. ***Departments should establish and enforce SOP's which support wellness. Adopt a "heart healthy" life style.**
7. Create a national research agenda and data collection system that relates to the initiatives.
*** Encourage your department to participate in WFIRS. Support data gathering at your department.**
8. ***Utilize available technology wherever it can produce higher levels of health and safety.**
9. Thoroughly investigate all firefighter fatalities, injuries, and near misses. ***Implement investigation without delay.**
10. *** Grant programs should support the implementation of safe practices and/or mandate safe practices as an eligibility requirement.**
11. National standards for emergency response policies and procedures should be developed and championed. *** National standard for emergency response policy and procedures should be developed. At the local level – help adopt safe driving rules and enforce them – "arrive alive."**
12. National protocols for response to violent incidents should be developed and championed. *** Fire and EMS workers deserve to have policies which will reduce their exposure to all threats of violence.**
13. Firefighters and their families must have access to counseling and psychological support.
*** Firefighting is a high risk occupation, which can put firefighters and their families under extreme stress. They deserve access to mental health care.**
14. Public education must receive more resources and be championed as a critical fire and life safety program. *** Public education is a responsibility of all fire service personnel. It should not be reserved for one week in October. Make communicating the fire prevention message to the community a priority.**
15. Advocacy must be strengthened for the enforcement of fire codes. *** Make sure all firefighters understand how sprinkler systems operate and the value they bring to reducing Line of Duty Death.**
16. Safety must be a primary consideration in the design of apparatus and equipment.
*** Encourage your department to make safety the highest priority in equipment and apparatus purchases – as high as design and price.**



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FIREFIGHTER LIFE SAFETY INITIATIVES

16 Firefighter Life Safety Initiatives

The 16 initiatives, listed on the preceding page, address the 6 root causes of firefighter injuries, close calls, and Line of Duty Death.

1. Ineffective policies and procedures.
2. Ineffective decision making.
3. Lack of preparedness.
4. Ineffective leadership.
5. Lack of personal responsibility.
6. Extraordinary and unpredictable circumstances.

For more information on the

Courage to be safe So everyone goes home program

Contact the Department of Fire Prevention

Training Division

At 307-777-7288

Or

View the Courage to be Safe Drills on our website at: <http://wyofire.state.wy.us>

Wyoming Firefighters Certification Committee

The WFCC is a 10 member board, which consists of 8- members from the fire service; 1- member from the State Forestry Rural Training Officer, 1- member representing the State Fire Marshals Office. The committee members function as liaison between the fire service and the Wyoming State Fire Marshal. The committee also serves in an advisory capacity to consider needs and plans of the DFPES.

**Please visit the SFMO website at <http://wyofire.state.wy.us>
For a current list of the members of the
Wyoming Firefighters Certification Committee**

Wyoming State Fire Marshal Department of Fire Prevention and Electrical Safety

Please direct Wyoming Firefighter certification questions and comments to:

Certification Coordinator
DFPES-Training Division
Herschler Building 1 West
122 W. 25th Street
Cheyenne, Wyoming 82002

PH: (307) 777-7288

FAX: (307) 777-7119

Please visit our Web site at: <http://wyofire.state.wy.us>

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INTRODUCTION

The world we live in is changing so fast, and the many phases of the fire service are becoming so technical and complex that fire service training must be utilized to its maximum potential. Any overlap, fragmentation, and lack of basic structure must be eliminated. Standardization is the natural complement and necessity.

The fire service in Wyoming, through a state certification program, can meet the needs of future growth and establish uniformity through certification. We will then have more effective and efficient utilization of resources so as to provide the best possible fire protection service for all the citizens throughout the state of Wyoming.

The following hazardous materials technician requirements are based on the objectives listed in the National Fire Protection Association (NFPA) 472, *Standard for Professional Competence of Responders to Hazardous Materials Technician*, as verified and adopted by the Department of Fire Prevention and Electrical Safety (DFPES) and the Wyoming Firefighters Certification Committee (WFCC).

Through these national standards and certification, firefighters and fire departments have a tool to measure specific levels of skills, abilities and knowledge. The DFPES and the WFCC believe by participating in this annual training program Wyoming firefighters and fire departments will be better prepared to provide quality life safety and fire protection for their communities.

Hazardous Materials Technician Level Training

The focus and purpose of the Technician Level Responder is to give the front line firefighter the ability to:

- Demonstrate all competencies as developed at the Technician level.
- Collect and interpret hazard and response information.
- Determine extent of damage to containers.
- Identify the response objectives for a hazardous materials incident.
- Select PPE for a given action and decontamination procedures.
- Don, work-in, doff Level A and B suits.
- Perform control functions as determined by the action plan.
- Evaluate, debrief, critique and document an incident.

Annual Refresher Training

In accordance with OSHA 1910.120(q)(8)(i), those employees who are trained in accordance with paragraph (q)(6) of this section shall receive annual refresher training of sufficient content and duration to maintain their competencies, or shall demonstrate competency in those areas at least yearly.

In accordance with OSHA 1910.120(q) (8) (ii), a statement shall be made of the training or competency, and if a statement of competency is made, the employer shall keep a record of the methodology used to demonstrate competency.

To comply with the annual refresher training requirements, each AHJ shall track training dates on the Training/In-House Comprehensive Examination record for a time period of two years.

Refresher Training/In-House Comprehensive Examination shall be submitted to the DFPES on a 2 year basis. Please refer to the Hazardous Material Technician Annual Refresher Training and Certificate Renewal for more information.

Standards for Regional Emergency Response Teams

Homeland Security, Office of General Agency, Board or Commission Rules Current Rules and Regulations

Wyoming Emergency Response Rules, Page 2-2, Chapter 2, Section 1, Subsection V.

to Wyo Stat. §35-9-107(a)(iii)(E).

(V) Attend a minimum of eight (8) hours of training annually in hazardous materials or weapons of mass destruction emergency response. Training may include training obtained in satisfaction of continuing education requirements for his or her professional certification. Training may include participation in table top simulations and field exercises involving hazardous materials or weapons of mass destruction emergency response.

<http://soswy.state.wy.us/RULES/6118.pdf>

CERTIFICATION REQUIREMENTS

Entrance Requirements

In order to certify within the Wyoming Hazardous Materials Technician program, departments/firefighters must fulfill the following requirements:

1. Complete department entrance requirements.
2. Set up and maintain department records.
3. Train on the required written and practical objectives.
4. Pass a department "In-House" comprehensive examination.
5. Meet any other training requirements/prerequisites as defined by the DFPES.
6. Pass both written and practical skills examination administered by the DFPES.
7. Request Hazardous Materials Technician certification.
8. Complete ICS-100: Introduction to ICS.
9. Complete ICS-200: Basic ICS.

The DFPES acknowledges the importance of and need for entrance requirements as listed in the NFPA 472, *Standard on Competencies for Hazardous Materials Technician*; NFPA 1582, *Standard on Comprehensive Occupational Medical Program for Fire Departments*; OSHA 1910.120 Hazardous Waste Technician and Emergency Response; and OSHA 1910.134 Respiratory Protection. Many agencies and departments have existing policies, regulations, etc. already in place regarding these requirements. The handling of entrance requirements is a **LOCAL MATTER**, outside the authority and jurisdiction of the DFPES. The DFPES will not check, test, evaluate or determine how individual agencies meet these requirements. Some departments have found it necessary to waive any type of entrance requirements due to their own special needs. As a local decision, this is permitted. However, due to the amount of physical, mental and emotional stress inherent in this profession, **the DFPES strongly recommends careful evaluation before altering or doing away with any existing entrance requirements.**

Medical Fitness/Respiratory Requirements

The requirements listed in NFPA 1582, OSHA 1910.120 and OSHA 1910.134.

1. Meet the minimum educational requirements established by the Authority Having Jurisdiction.
2. Meet the medical requirements of NFPA 1582, *Comprehensive Occupational Medical Program for Fire Departments*.
3. Physical fitness requirements for entry-level personnel shall be developed and validated by the authority having jurisdiction. Physical fitness requirements shall be in compliance with applicable Equal Employment Opportunity regulations and other legal requirements.

DEPARTMENT TRAINING

Hazardous Material Technician Level training requires a high level of training. The Hazardous Materials Technician responds to hazardous materials/WMD incidents using a risk-based response process by which they analyze a problem involving hazardous materials/WMD, select applicable decontamination procedures, and control a release using specialized protective clothing and control equipment.

The hazardous materials technician shall be trained to meet all competencies of the awareness level (Chapter 4), all core competencies at the Operations level (Chapter 5, Chapter 6.2 and 6.5), and all competencies of Technician (Chapter 7).

There are different methods a department can use to receive training at the Hazardous Materials Technician Level.

Hazardous Materials - Technician course sponsored by the Wyoming Department of Fire Prevention & Electrical Safety – Training Division.

Hazardous Materials – Technician training that is offered by the Emergency Response Training Center, Transportation Technology Center in Pueblo, Colorado.

Department Based Training – Departments can create their own Hazardous Materials - Technician course which meets the requirements as outlined in NFPA 472, Chapter 7. Testing will be conducted at the conclusion of the course upon request from the department training officer or administrator.

Written Objectives

Written objectives for Hazardous Materials Technician Level are covered in the following text:

1. Wyoming Department of Fire Prevention & Electrical Safety – Hazardous Materials Technician course.
2. Delmar, *Hazardous Materials Incidents*, 2nd Edition.
3. FPP, *Hazardous Materials: Managing the Incident*, 3rd Edition.
4. IFSTA, *Hazardous Materials for First Responders*, 3rd Edition.
5. DOT, *Emergency Response Guidebook*.
6. NFA, *Emergency Response to Terrorism: Basic Concepts*, Student Manual.
7. Delmar, *Firefighter's Handbook Workbook*, 2nd Edition.

Manipulative Objectives

Each participant **must** be trained and evaluated in the performance of **all** manipulative skill objectives. Each of the manipulative skill objectives shall be completed swiftly, safely and with competence as defined below:

- **Swiftly** -Each manipulative skill objective must be completed within the allotted time.
- **Safely** -Each manipulative skill objective must be completed safely. Conduct that could injure individual or damage equipment is unacceptable. Equipment should be checked prior to skill testing or training to see that it is safe and functional.
- **Competence** - Each manipulative skill objective is performed in accordance with the Wyoming Standard. This includes performing the proper steps in sequence. Competence will be measured in accordance with the DFPES manipulative skill objectives.

Department Training Officers

For departments to enroll in their certification process, it is necessary for departments to assign training officers. It is recommended departments assign **at least two** personnel as training officers to coordinate and provide certification training.

Department training officers shall be state certified at the level they are teaching. In addition, the DFPES strongly recommends training officers be state certified at the Instructor I level.

Department training officers are responsible for certification training. Their primary responsibility will be to teach, evaluate, and in-house test department personnel on the manipulative skills and evolution requirements for each level of certification training.

Departments who do not have certified personnel to act as training officers for certification training should contact the DFPES-Certification Coordinator at (307) 777-7288 for assistance in setting up and monitoring certification training.

Department Training Records

Each participant shall have a training record on file with the department, which indicates whether he/she has trained on all manipulative skills objectives. This record shall be signed off or initialed by a department training officer. Training records must indicate the date, instructor, and total number of hours trained for each manipulative skill objective. Departments may set up their own training records or use the one provided in Appendix A.

Department “In - House” Comprehensive Examination

At the completion of the department's manipulative skills training, the department is required to hold an “In-House” comprehensive examination for the level being trained. This is a comprehensive "In-House" skills test conducted by the department training officers. This test is to ensure that skill mastery has been maintained from the beginning to the end of the training process, and to prepare participants for the state examination. Training officers may utilize other personnel to assist in administering the exam; however, all that assist must be certified at the level they are in-house testing.

Tester instructions for the examination are in Appendix C. In-house testers shall follow the Proctor Instruction sheet to provide for uniformity and fairness during the exam. It is recommended participants be given two attempts at any skill. **If they fail on the second try, then they have failed the evaluation and are required to go through additional training by the department trainer.** No training, teaching, or coaching is allowed during the test. After the evaluation, using the test to teach and train is recommended.

If manipulative skill weaknesses are evident, the department shall conduct additional training and hold a new department "In-House " comprehensive examination to ensure their personnel have fully mastered all required skills. Only those participants who successfully pass the department's skills test will be allowed to participate in the Certification Committee's manipulative skills "spot check" examination. Department records must show all participants have successfully passed the “In-House” exam.

CERTIFICATION EXAMINATIONS

After completion of the training process, the Fire Chief/Head of Department can request testing for the department. Using the "Firefighter Examination/Certification/Request" form in Appendix C. Fire Chief/Head of Department may request a written examination and manipulative test for certification. A testing fee *may* be charged at the time of certification.

Written Examinations

There will be a written examination administered at the end of the HMT course.

Manipulative Skill "Spot Check" Examination

This is a two-step examination. The first step is a department records check and the second step is the manipulative skills "spot check" examination. A Certification Tester appointed by the DFPES conducts the examination.

Training records are checked. If records are inadequate, corrective action must be taken before proceeding to the next step. The records must meet minimum requirements and are checked for the following:

1. Trainee has been trained in each manipulative skill for the level being evaluated.
2. A department training officer has signed off each manipulative skill.
3. The total number of hours trained on each manipulative skill is listed.
4. Each trainee has passed a department "In-House" comprehensive examination.

The manipulative skills "spot check" examination is graded on a 100% pass/fail basis. The test is graded in the following three areas:

- **Swiftly** - Each manipulative skills objective must be completed within the allotted time.
- **Safely** - Each manipulative skills objective must be completed safely. Conduct that could injure individual or damage equipment is unacceptable. Equipment should be checked prior to skill testing or training to see that it is safe and functional.
- **Competence** - Each manipulative skill objective is performed in accordance with the Wyoming Standard. This includes performing the proper steps in sequence. Competence will be measured in accordance with the DFPES manipulative skill objectives.

Participants are "spot checked" on **THREE (3)** manipulative skills. No prior notification of the skills being tested will be given. Participants are given two attempts if necessary to perform each skill. If they fail on the second attempt, the applicant must wait 30 days before the third and final attempt. Participants taking third attempts will test on the skill they missed plus an additional skill from the same section of the standard they failed during the previous two attempts. **No training, teaching, or coaching is allowed during this state test.**

Participants who have failed the third attempt of the written examination or the manipulative skills examination have failed the certification process and must wait 1 year from the date of the failed third attempt before they can re-enter state testing. After waiting 1 year, participants begin a new testing cycle beginning with a first attempt of a written or manipulative examination.

HAZARDOUS MATERIALS TECHNICIAN CERTIFICATION

When all requirements for certification have been met, firefighters are eligible to be certified. The Fire Chief/Head of Department may apply to DFPES for certification for those firefighters who have successfully completed the certification training/testing process. Request for state certification will be submitted to the DFPES using the "Firefighter Examination/Certification/Request" form provided in Appendix C. The names are then checked against the official state records to ensure each individual listed has met all requirements.

Those applicants who have met the requirements are issued a certificate. These are sent to the Fire Chief/Head of Department for disbursement.

Prerequisites for Certification:

Applicants for certification at the Technician level must be State certified through the Department of Fire Prevention and Electrical Safety (DFPES) Certification system at the Hazardous Materials First Responder Operations level. Hazardous Materials Technician Level certification will not be issued until participants have fulfilled this requirement.

For more information on Wyoming Hazardous Materials Technician certification contact the:

DFPES Certification Coordinator
Herschler Building 1 West
122 W. 25th Street
Cheyenne, WY 82002
307-777-7288
<http://wyofire.state.wy.us>

HAZARDOUS MATERIALS TECHNICIAN CERTIFICATION CHECKLIST

ENTRANCE REQUIREMENTS:

- Each candidate has met requirements listed in Hazardous Materials Technician Competency NFPA 472 and those established by the Authority Having Jurisdiction.

DEPARTMENT TRAINING RECORDS:

- Each candidate has a training record on file with the department that shows:
- 1- A learning experience in each manipulative skill objective
 - 2- Dates of training
 - 3- Initials of instructors
 - 4- Total number of hours trained in each manipulative skill objective.

DEPARTMENT "IN HOUSE" COMPREHENSIVE EXAMINATION:

- Each candidate has successfully completed an "In House" comprehensive examination.
- Results of exam are documented in department training records.

ADDITIONAL TRAINING/PREREQUISITE REQUIREMENTS:

- Each participant is state certified through the DFPES at the Hazardous Materials First Responder Operations Level.
- Complete ICS-100: Introduction to ICS.
- Complete ICS-200: Basic ICS.

CERTIFICATION EXAMINATIONS:

- Each participant has passed the written examination administered at the end of the HMT Course.
- Each participant has passed the DFPES manipulative "Spot Check" skills examination administered by an approved Certification Tester.

TECHNICIAN MANIPULATIVE SKILL OBJECTIVES

SURVEYING THE HAZARDOUS MATERIALS INCIDENT

NFPA 472, 7.1.2.2(1), 7.2.1.4 & A.7.2.1.4 (1-5), Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 1: Identify labels for radioactive materials.

CONDITION: Given a label for radioactive material, (White 1, Yellow II, Yellow III, Empty, Fissile) identify:

TIME: 5:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Type or category of label.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Contents.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Activity.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Transport index.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Criticality safety index as applicable.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Describe the radiation dose rates associated with each label.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.5, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 2: Demonstrate collecting samples.

CONDITION: Given a scenario, personal protective clothing and sampling equipment demonstrate collecting samples.

TIME: 5:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Select appropriate level of protective clothing.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Don appropriate protective clothing.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate equipment.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Collect sample.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Take appropriate steps to avoid contamination.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.3.5, 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 3: Given three hazardous materials, one of which is a solid, one a liquid and one a gas, and the following monitoring equipment, test strips and reagents, select the appropriate equipment and demonstrate the proper techniques to identify and quantify the materials:

A. Carbon monoxide meter.

CONDITION: Given incident information, a sample with an unknown concentration of CO, a calibrated meter with instruction manual and appropriate PPE.

TIME: 5:00 minutes from ready time of meter

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Field-test meter.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Test sample.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Determine and record results.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.3.5, 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

B. Colormetric tubes.

CONDITION: Given incident information, a sample of a substance, colormetric tubes and pump and appropriate PPE.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Select appropriate tube for suspected substance.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Following manufacturers instructions, properly prepare tube and pump for sampling.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Draw sample.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Determine and record results.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.3.5, 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**C. Combustible gas indicator (CGI).**

CONDITION: Given incident information, a sample with an unknown concentration of flammable gas or vapor, a calibrated C.G.I. with instruction manual and appropriate PPE.

TIME: 5:00 minutes from ready time of meter

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Field-test meter.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Test sample.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Determine and record results.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.3.5, 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**D. Oxygen meter.**

CONDITION: Given incident information, a sample with an unknown concentration of oxygen, a calibrated oxygen meter with instruction manual and appropriate PPE.

TIME: 5:00 minutes from ready time of meter

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Field-test meter.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Test sample.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Determine and record results.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.3.5, 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

E. PH indicators and / or pH meters.

CONDITION: Given incident information, a sample of an unknown substance, a pH meter and/or indicator strips and appropriate PPE.

TIME: 5:00 minutes (from ready time if meter is used)

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Select a measuring device.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Prepare device for sampling.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Test sample.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Determine and record results.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.3.5, 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

F. Radiation detection instruments.

CONDITION: Given incident information, a sample of a suspected radioactive source, a calibrated Radiation survey meter with instruction manual and appropriate PPE.

TIME: 5:00 minutes from ready time of meter

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Test sample.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Determine and record results.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.3.5, 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

G. Reagents.

CONDITION: Given incident information, an unidentified chemical sample, a chemical classification kit and appropriate PPE.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely handle sample.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Conduct tests in conformance with ID kit directions.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Correctly classify chemical or chemical family.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.3.5, 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

H. Test strips.

CONDITION: Given incident information, a sample of an unknown substance, test strips, (Example: water finder, M8 or M9), and appropriate PPE.

TIME: 3:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Select an indicator strip.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Prepare strip for sampling.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Test sample.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Determine and record results.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.3.5, 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

I. Passive dosimeters.

CONDITION: Given incident information, detect and measure concentration of chemical.
(Specific dosimeter for e.g., organic vapors, mercury, ethylene oxide, ect.)

- **Equipment as provided by AHJ.**

TIME: 3:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Select measuring device.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Measure concentrations.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Determine and record results.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.3.5, 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

J. WMD detectors (chemical & biological).

CONDITION: Given incident information, detect and measure chemical or biological agent.

TIME: 3:00 minutes

- **Equipment as provided by AHJ.**

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Select measuring device.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Measure concentrations.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Determine and record results.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1), 7.2.1.3.5, 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

K. Photo ionization and Flame ionization detectors.

CONDITION: Given incident information, detect and measure for chemical agents.

- **Equipment as provided by AHJ.**

TIME: 3:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Select measuring device.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Measure concentrations.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Determine and record results.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(1a), 7.2.1.3.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 4: Demonstrate field maintenance and testing procedures for monitoring equipment.

CONDITION: Given a monitoring device (Carbon monoxide, CGI or Oxygen) and instruction manual.

TIME: 25:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Handle in safe manner.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Follow manufacturer instructions:	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Clean and purge.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Field test.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Field calibrate.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Check and verbalize expiration date.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Demonstrate proper storage.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

IMPLEMENTING THE PLANNED RESPONSE

NFPA 472, 7.1.2.2(2d), 7.4.5, 7.4.5(3) & A 3.3.17.3.3, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 5: Demonstrate the setting up of a multiple station decontamination corridor. (See appendix C)

CONDITION: Given an assignment, decon equipment, incident information and a 2-person team.

TIME: 30:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Select appropriate site; uphill, upwind.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Containment of decon solutions and runoff water.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Clearly marked entry point.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Tool drop.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Wash station, (may be multiple).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Rinse station, (may be multiple).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. SCBA drop/Bottle change.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8. PPE drop station.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
9. Clearly marked exit point.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3, 4), 7.4.5(1, 2), 7.5.2 & A 3.3.17.4, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 1

Skill 6: Demonstrate the decontamination process.

CONDITION: Given a decon corridor and equipment (properly set-up), proper PPE (firefighter turnouts as minimum), a 2-person team and a scenario for a technical decontamination situation involving ambulatory and non ambulatory victims, or in support of an entry team.

TIME: 30:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Determine appropriate type of decon.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Determine appropriate PPE for responders.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Establish communication with person to be decontaminated.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Use proper method to decontaminate person.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Contain and prevent spread of contamination.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Determine effectiveness of decontamination process with wipe samples or meters or lab test.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. Properly remove PPE (if needed).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

USING PROTECTIVE CLOTHING

NFPA 472, 7.1.2.2(3b), 7.4.2(1-4), 7.3.3.4.5, 7.3.3.4.6, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 7: Identify and demonstrate Assist/Donning, working in, and doffing chemical protective clothing for Level “A” and “B” Personnel Protective Equipment.

CONDITION: Given a 2-member team, identify proper protective clothing, Level “A” or “B” PPE, chemical information and chemical resistance chart and a specific Hot zone task.

TIME: 30:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
<u>Skills for person Donning Level “A” or “B” suit.</u>		
1. Inspect equipment prior to donning.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Adjust equipment as needed.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Don CP suit.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Don 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 face piece.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. Check face seal.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8. Don inner gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
9. Don outer gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
10. Don head protection.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<u>Skills for person assisting in Donning of Level “A” or “B” suit.</u>		
1. Assist donning suit.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Assist donning boots.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Correctly tape* hood of PPE to SCBA face piece (if required).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Assist donning SCBA.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Connect supply hose to SCBA regulator.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Tape* front of suit (if required).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. Assist donning inner gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8. Assist donning outer gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
9. Tab all ends of tape* (2” minimum).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
10. Determine the protective clothing construction materials using chemical compatibility charts. (Verbalize)	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

*** Taping not required for encapsulating splash suits unless gloves and/or boots are not integrated into the suit.**

PERFORMANCE RATING ON THIS SKILL:	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2, 7.3.5.2(1, 2), 7.3.5.3, 7.3.5.4, 7.3.5.5, 7.4.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 8: Develop a site safety and control plan.

CONDITION: Given a scenario involving a hazardous materials or WMD incident, develop a site safety and control plan as part of an incident action plan.

TIME: 25:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	<u>Y N</u>	<u>Y N</u>
1. List and describe safety considerations.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify information for safety briefing.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Identify atmospheric and physical safety hazards.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Identify pre-entry activities to be performed.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Identify procedures, equipment, safety precautions for and collection legal evidence.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2, 7.4.2, 7.4.3.5, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 9: Identify maintenance and inspection procedures.

CONDITION: Given tools and equipment provided for control of a hazardous materials releases, identify maintenance and inspection procedures.

TIME: 5:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	<u>Y N</u>	<u>Y N</u>
1. Inspect all equipment for damage	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Remove dirt, chemicals, oil or other compounds from protective clothing.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Inspect for damage.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Describe proper cleaning methods (Manufacturer recommended or department SOP).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Completed skill in allotted time.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2, 7.4.2, 7.4.3, 7.5.1, 7.6.3(9), Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 10: Demonstrate the ability to record the use, repair, and testing of chemical-protective clothing according to manufacturer's specifications and recommendations.

CONDITION: Given equipment log, pencil, decontaminated PPE, manufacturer instructions and suit testing equipment.

TIME: 5:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Inspect PPE.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Record findings, testing and use.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Check for evidence of chemical penetration, permeation of fabric/material or mechanical damage.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Remove from service if PPE is damaged (must verbalize).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

PERFORMING CONTROL FUNCTIONS

NFPA 472, 7.1.2.2(3), 7.4.3, 7.4.3(1), 7.5.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 11: Demonstrate the appropriate method to contain a leak from the following locations:

A. Fusible metal of plug.

CONDITION: Given appropriate PPE, a simulated leak in a chlorine or similar vessel, plugging equipment and material, and a 2-person team.

TIME: 10:00 minute

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate containment material or equipment.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3, 7.4.3(1), 7.5.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**B. Fusible plug threads.**

CONDITION: Given appropriate PPE, a simulated leak in a chlorine or similar vessel, plugging equipment and materials, and a 2-person team.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate containment material or equipment.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3, 7.4.3(1), 7.5.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**C. Side wall of cylinder.**

CONDITION: Given appropriate PPE, a simulated leak in a chlorine or similar vessel, plugging and patching equipment and materials, and a 2-person team.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate containment material or equipment.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3, 7.4.3(1), 7.5.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**D. Valve blowout.**

CONDITION: Given appropriate PPE, a simulated leak in a chlorine or similar vessel, plugging equipment and materials, and a 2-person team.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate containment material or equipment.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3, 7.4.3(1), 7.5.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**E. Valve gland.**

CONDITION: Given appropriate PPE, a simulated leak in a chlorine or similar vessel, plugging tools, equipment and materials, and a 2-person team.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate containment material or equipment.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3, 7.4.3(1), 7.5.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**F. Valve inlet threads.**

CONDITION: Given appropriate PPE, a simulated leak in a chlorine or similar vessel, plugging equipment and materials, and a 2-person team.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate containment material or equipment.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3, 7.4.3(1), 7.5.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**G. Valve seat.**

CONDITION: Given appropriate PPE, a simulated leak in a chlorine or similar vessel, plugging equipment and materials, and a 2-person team.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate containment material or equipment.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3, 7.4.3(1), 7.5.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**H. Valve stem assembly blowout.**

CONDITION: Given appropriate PPE, a simulated leak in a chlorine or similar vessel, plugging equipment and materials, tools as necessary, and a 2-person team.

TIME: 20:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate containment material or equipment.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3, 7.4.3(2), 7.5.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 12: Demonstrate the ability to perform the following on the fittings of a pressure container.

A. Close valves that are open.

CONDITION: Given appropriate PPE, a simulated leak, tools as necessary, and a 2-person team.

TIME: 5:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate valve to close.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Safely close valve.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3, 7.4.3(2), 7.5.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

B. Replace missing plugs.

CONDITION: Given appropriate PPE, a simulated leak, plugging equipment and materials, tools as necessary, and a 2-person team.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate containment material or equipment.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3, 7.4.3(2), 7.5.1, Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

C. Tighten loose plugs.

CONDITION: Given appropriate PPE, a simulated leak, tools as necessary, and a 2-person team.

TIME: 5:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Tighten loose plug(s).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3(3), Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**Skill 13: Demonstrate the ability to contain the following type of leaks in 55-gal drum:****A. Bung leak.**

CONDITION: Given a 55-gal. drum, appropriate PPE, a simulated leak of a known material, appropriate tools and a 2-person team.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Tighten bung and stop the leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3(3), Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**B. Chime leak.**

CONDITION: Given a 55-gal. drum, appropriate PPE, a simulated leak of a known material, plugging equipment and materials, and a 2-person team.

TIME: 15:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3(3), Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**C. Forklift puncture.**

CONDITION: Given a 55-gal. drum, appropriate PPE, a simulated leak of a known material, patching equipment and materials, and a 2-person team.

TIME: 15:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3(3), Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**D. Nail puncture.**

CONDITION: Given a 55-gal. drum of a known material, appropriate PPE, plugging and/or patching material, and a 2-person team.

TIME: 5:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Identify source and type of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Safely contain leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3(4), Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 14: Demonstrate the ability to place a 55-gal. drum into the overpack drum using the following methods:

A. Rolling slide-in method.

CONDITION: Given scenario involving a 55-gal. drum (half empty), appropriate PPE, overpack drum, and a 2-person team.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Use correct techniques to move drum into overpack drum.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Standup overpack drum and secure lid.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3(4), Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13**B. Slide-in method.**

CONDITION: Given a scenario involving a 55-gal. drum (half empty), appropriate PPE, overpack drum, and a 2-person team.

TIME: 10:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Use correct techniques to move drum into overpack drum.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Standup overpack drum and secure lid.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3(4), Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

C. Slip-over method.

CONDITION: Given a scenario involving a 55-gal. drum (half empty), appropriate PPE, overpack drum, and a 2-person team.

TIME: 5:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Use correct techniques to move drum into overpack drum.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Standup overpack drum and secure lid.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

NFPA 472, 7.1.2.2(3), 7.4.3(8), 7.4.3(9), Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 15: Demonstrate the ability to install a dome cover clamp on an MC-306/DOT-406 cargo tank:

CONDITION: Given an MC-306/DOT-406 dome, dome cover clamp, appropriate PPE, tools as necessary.

TIME: 5:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Safely enter area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Gain access to dome area.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Safely and properly install clamp on dome cover.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Exit area as team.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

REPORTS AND DOCUMENTATION

NFPA 472, 7.1.2.2, 7.6.3(1-10), Safe Drill, 1, 2, 3, 4, 8, 10, 11, 12, 13

Skill 16: Demonstrate the proper completion of required reports, (LERP or SOP).

CONDITION: Given incident records (personnel exposure records, debriefing records, critique records, activity log, and exposure records), proper report forms, pencil or computer.

TIME: 30:00 minutes

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Date, incident location, personnel involved are listed.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Correct information is listed in appropriate locations on report forms.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Proper grammar and spelling use for narrative portions of reports.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

APPENDIX A
TRAINING RECORD

**HAZARDOUS MATERIALS FIRST RESPONDER - TECHNICIAN
TRAINING/ IN-HOUSE COMPREHENSIVE EXAM**

NAME: _____ SSN: _____ - _____ - _____ DEPARTMENT: _____

SECTION	TRAINING RECORD			IN-HOUSE COMP. EXAM			MANIPULATIVE SKILL-DEMONSTRATE
	DATE	INST.	HR'S	DATE	INST.	P/F	
Surveying the Hazardous Materials Incident							1. Identify labels for radioactive materials.
							2. Demonstrate collecting samples.
							3. Given 3 hazardous materials, one solid, one liquid, & one gas, & the following monitoring equipment, test strips & reagents, select the appropriate equipment & demonstrate proper techniques to identify & quantify the materials:
							3a. Carbon monoxide meter.
							3b. Colorimetric tubes.
							3c. Combustible gas indicator (CGI).
							3d. Oxygen meter.
							3e. pH indicators and/or pH meter.
							3f. Radiation detection instruments.
							3g. Reagents.
							3h. Test strips
							3i. passive dosimeters
							3j. WMD chemical and biological detectors.
							3k. ionization and flame detectors.
							3l. equipment provided by AHJ.
							4. Demonstrate field maintenance and testing procedures for monitoring equipment.

SECTION	TRAINING RECORD			IN-HOUSE COMP. EXAM			MANIPULATIVE SKILL-DEMONSTRATE
	DATE	INST.	HR'S	DATE	INST.	P/F	
Implementing the Planned Response Clothing							5. Demonstrate the setting up of a multiple station decontamination corridor.
							6. Demonstrate the decontamination process.
Using Protective Clothing							7. Identify and demonstrate Assist/Donning, working in, and doffing protective clothing for level "A" and "B" PPE.
							8. Develop a site safety and control plan.
							9. Identify maintenance and inspection procedures.
							10. Demonstrate the ability to record the use, repair, and testing of chemical-protective clothing.
Performing Control Functions							11. Demonstrate appropriate method to contain a leak from the following locations:
							11a. Fusible metal of plug.
							11b. Fusible plug threads.
							11c. Side wall of cylinder.
							11d. Valve blowout.
							11e. Valve gland.
							11f. Valve inlet threads.
							11g. Valve seat.
							11h. Valve stem assembly blowout.

SECTION	TRAINING RECORD			IN-HOUSE COMP. EXAM			MANIPULATIVE SKILL-DEMONSTRATE
	DATE	INST.	HR'S	DATE	INST.	P/F	
Performing Control Functions							12. Demonstrate the ability to perform the following on the fittings of a pressure container:
							12a. Close valves that are open.
							12b. Replace missing plugs.
							12c. Tighten loose plugs.
							13. Demonstrate the ability to contain the following leaks in a 55 gallon drum.
							13a. Bung leak.
							13b. Chime leak.
							13c. Forklift puncture.
							13d. Nail puncture.
							14. Demonstrate ability to place a 55 gallon drum into the overpack drum using the following methods:
							14a. Rolling slide-in method.
							14b. Slide-in method.
							14c. Slip-over method.
							15. Demonstrate the ability to install a dome cover clamp on an MC-306/DOT-406 cargo tank.
Reports and Documentation							16. Demonstrate the proper completion of required reports (LERP or SOP).

APPENDIX B
GLOSSARY OF TERMS

GLOSSARY OF TERMS

TERM DEFINITION

Absorption: to take internally into the body through the contact with the skin surface.

Acid, caustic: may cause the pressure within a container to rise, particularly if they become contaminated.

Acute Effect: an adverse effect to a human or animal body, caused by exposure to a chemical or physical agent, with symptoms developing rapidly. Also see chronic.

Acute Toxicity: the adverse (acute) effects resulting for a single dose or exposure to a substance.

Airbill: a shipping paper prepared from a bill of lading that accompanies each piece of an air shipment.

Air-Reactive Materials: substances that will ignite at normal temperatures when exposed to air.

Ambient Temperature: the normal temperature of the environment.

Asphyxiant: a vapor or gas which can cause unconsciousness or death by suffocation (lack of oxygen).

Asphyxiating Materials: substances that can cause death by displacing the oxygen in the air.

Biological agents/toxins: living organisms, or materials derived from them, that cause disease in or injury to humans, animals or plants or cause deterioration of material. Agents can be used in liquid droplets, aerosols, or dry powders.

B-NICE: an acronym for biological, nuclear, incendiary, chemical, or explosives.

Boiling Liquid Expanding: a major container failure, into two or more Vapor Explosion (BLEVE) pieces, at a moment in time when the contained liquid is at a temperature well above its boiling point at normal atmospheric pressures.

Boiling Point: the temperature at which the vapor pressure of a liquid equals the atmospheric pressure. The boiling point is an important indicator of the vapor pressure of a substance. A liquid with a low boiling point (less than 100 degrees F.) has a higher pressure. In turn, this will indicate a tendency to BLEVE.

Breakthrough: the penetration of material or materials through a gas or vapor air purifying element or fabric. The quantity or extent of breakthrough during service life testing is often referred to as the percentage of the input concentration.

Breakthrough Time: the time that it takes a specific chemical to pass through protective clothing referenced by manufacturer test data.

Bulk Container: a cargo container, such as that attached to a tank truck or tank car, used for transporting materials in bulk quantities.

Bung: a cap or screw used to cover the small opening in the top of a metal drum or barrel.

Chemical Abstracts: a Columbus, Ohio organization, which indexes information

Service® (CAS): published in Chemical Abstracts by the American Chemical Society® and provides index guides in which information about particular substances may be located in the Abstracts when needed. CAS numbers identify specific chemicals.

Capacity Indicators: devices installed on a tank to indicate capacity at a specific level sometimes called markers.

Carboy: a bottle or rectangular container for liquids of about 5-to 15-gallon capacity that is made of glass, plastic, or metal and is often cushioned in a protective container.

Carcinogens: cancer producing substances.

Cargo Manifest: a shipping paper that contains all of the contents being carried by the transporting vehicle or vessel.

Catalyst: used to control the rate of a chemical reaction by either speeding it up or slowing it down.

Chemical Interactions: interaction of materials in a container that may change the pressure within a container or increase heat.

Chemical Reactivity: a substance's propensity to release energy or undergo change.

Chemical Transportation: a telephone hotline for chemical emergencies open 24 hours (CHEMTREC ®): Emergency Center hours, everyday. (Phone: 1-800-424-9300).

Chronic Effect: an adverse effect on a human or animal body, with symptoms which develop slowly over a long period of time and exposure to a chemical or physical agent, also see acute.

Chronic Toxicity: adverse (chronic) effects resulting from repeated doses of or exposures to a substance over a relatively prolonged period of time, ordinarily used to denote effects in experimental animals.

Code of Federal: the formal name given to those books or documents that

Regulations (CFR): contain the specific regulations provided for by the law.

Cold Zone: contains the command post and such other support functions as are deemed necessary to control the incident. This is also referred to as the clean zone or support zone.

Combustion/Combustible Liquid: sudden fracture of a container or structure; any liquid that has a flash point at or above 100° F and below 200° F.

Combustion: an oxidation reaction in which heat and light are produced.

Compound, mixture: compounds are elements that are combined together, compounds have a tendency to break down into their component parts.

Concentration: the relative amount of a substance when combined or mixed with other substances.

Confinement: those procedures taken to keep a material in a defined or local area.

Consignee: the person who is to receive the shipment.

Consist: a rail shipping paper similar to a cargo manifest. It may contain a list of cars in the train in order or a list of those cars containing hazardous materials and their location on the train.

Containment: those procedures taken to keep a material in its container.

Contamination: staining or polluting that occurs by physical contact with another substance.

Control Zones: the designation of areas at a hazardous materials incident based on safety and the degree of hazard. Many terms are used to describe the zones involved in a hazardous materials incident.

Corrosive Material: any liquid or solid that can destroy human skin tissue: a liquid that has a severe corrosion rate on steel.

Critical Temperature: is the minimum temperature at which a gas can be liquefied.

Pressure: no matter how much pressure is applied. Critical pressure is the pressure that must be applied to bring a gas to its liquefied state.

Cryogen: gases that must be cooled to a very low temperature in order to bring about a change from a gas to a liquid.

Decontamination Area: the area usually located within the warm zone where decontamination takes place.

Degradation: a type of decomposition characteristic of high molecular weight substances such as proteins, polymers, branched-chained sultanates etc. It may result from oxidation, heat, sunlight, solvents, material action, or in the case of body proteins from infectious microorganisms.

Department of Transportation (DOT): agency responsible for shipping regulations for hazardous materials products in the United States.

Dikes: temporary walls constructed to halt the flow of a liquid substance; earthen or concrete walls surrounding oil tanks designed to catch overflow from tanks and relieve the danger of flowing flammable liquids spreading to other exposures.

Dose: the amount of a substance ingested, absorbed, and/or inhaled during an exposure period.

Dose rate: the dosage is equal to the time of exposure in minutes of an individual's unprotected skin, multiplied by the concentration of the agent cloud.

Environmental Protection Agency (EPA): a Federal agency with environmental protection regulatory and enforcement authority administers Clean Air Act, Clean Water Act, and other Federal environmental laws.

Etiologic Agent: a living microorganism that may cause human disease (e.g., AIDS).

Evaporation Rate: the rate at which a particular material will vaporize (evaporate), as compared to the rate of vaporization of a known material.

Expansion ratio: is the amount of gas produced by a given volume of liquid at a given temperature.

Explosive Limits: all concentrations of a mixture of flammable vapor or gas in air, usually expressed in percent by volume, in which a flash will occur or a flame will travel if the mixture is ignited. (Also see Flammable, LEL & UEL)

Exposures: people, property, or the environment that are or may be exposed to the harmful effects of a hazardous materials emergency.

Fire Point: the lowest temperatures of a liquid at which vapors are evolved fast enough to support continuous combustion:

Flammable: a flammable liquid is defined by NFPA and DOT as a liquid with a flash point below 100°F.

Flammable Gas: in order to be considered a flammable gas; a chemical must have an LFL of 13 percent or below, or a flammable range of 12 percent. (US DOT)

Flash Point: the minimum temperature at which a liquid gives off enough vapors to form an ignitable mixture with the air near the surface of the liquid.

Flashback: reignition of flammable liquid caused by exposure of its vapors to an ignition source.

Full Structural Protective: clothing includes helmets, Clothing self-contained breathing apparatus, coats and pants customarily worn by firefighters (turnout or bunker coats and pants), rubber boots, gloves. It also includes covering for the neck, ears, and other parts of the head not protected by the helmet or breathing apparatus hazardous materials. Bands or tape are added around the legs, arms, and waist.

Gas: a formless atmosphere which occupies completely the space or an enclosure; an aeriform fluid that is in a gaseous state at standard temperature and pressure.

Gross Weight: the weight of a trailer together with the weight of its entire contents.

Half-Life: the time it takes for the activity of a radioactive material to decrease to one half of its initial value through radioactive decay.

Hazard Class: a group of materials, as designated by the DOT, that share a common hazardous property, (i.e., radioactivity, flammability).

High Temperature Protective Clothing: protective clothing designed to protect the wearer for short-term, high-temperature exposures. This type of clothing is usually of limited use in dealing with chemical commodities.

Hot Zone: the area immediately surrounding a hazardous materials incident, which extends far enough to prevent adverse effects from hazardous materials releases to personnel outside the zone. This zone is also referred to as the exclusion zone or restricted zone.

Halogenated Hydrocarbon: is used to produce such things as flammable liquids, combustible liquids, and liquids used as extinguishing agents.

Ignition Temperature: the minimum temperature to which a fuel in air must be heated in order to start self-sustained combustion independent of the heating source.

Inorganic Materials: compounds derived from other than vegetable or animal sources which lack carbon chains but may contain a carbon atom i.e., sulfur dioxide (SO₂)

Inhibitor: are added to products to control their chemical reaction with other products.

Instability: materials that decompose spontaneously, polymerize, or otherwise self-react are generally considered unstable.

Incident Action Plan: the incident action plan, which is initially prepared at the first meeting, contains general control objectives reflecting the overall incident strategy and specific action plans for the next operational period. When complete, the incident action plans will have a number of attachments.

Incident Command Post: the location at which the primary command functions are (ICP) executed.

Incident Command System (ICS): the combination of facilities, equipment, procedures, and communications operating within a common organizational structure with responsibility for the management of assigned stated objective pertaining to an incident.

Incident Commander: the person who has total responsibility for all operations at a hazardous materials emergency.

Ingestion: the taking in of toxic materials through the mouth.

Inhalation: the taking in of toxic materials by breathing in through the nose or mouth.

Ionic compounds: atoms that have the same number of electrons and protons have zero charge since the number of positively charged protons equals the number of negatively charged electrons.

Irritant: a substance which, by contact in sufficient concentration for a sufficient period of time, will cause an inflammatory response or reaction of the eye, skin, or respiratory system. The contact may be single or multiple exposures.

Labels: four inch square diamond markers required on individual shipping containers smaller than 640 cubic feet.

Lower Explosive Limit: (LEL) also known as LFL of a vapor or gas; the lowest concentration (lowest percentage of the substance in air) that will produce a flash of fire when an ignition source (heat, arc, or flame) is present. At concentrations lower than the LEL, the mixture is too lean to burn. (See UEL).

Material Safety Data Sheets (MSDS: provided by manufacturers and compounders (blenders) of chemicals, with minimum information about chemical composition, physical and chemical properties, health and safety hazards, emergency response, and waste disposal of the material as required by OSHA 29 CFR 1910.120.

Maximum Safe Storage Temperature: temperature above the MSST at which a chemical may become unstable, spontaneously igniting and Temperature (MSST): rupturing its container. Typically such materials are stored in a refrigerated cabinet.

Melting Point: the temperature at which a solid substance changes to a liquid state. For mixtures, the melting range may be given.

Miscibility: a liquid's ability to mix with water.

Monitoring Equipment: instruments and devices used to identify and quantify contaminants.

Mutagen: a substance or agent capable of altering the genetic material in a living cell.

Nerve agent: chemical agent that acts by disrupting the normal function of the nervous system.

Nonflammable Gas: any gas that will not burn but may support combustion.

NOS: not otherwise specified.

Occupational Safety and Health Administration (OSHA): part of the US Department of Labor; Federal agency with Health Administration safety and health regulatory and enforcement authorities for enforcement authorities for most US industry and business.

Oral Toxicity: adverse effects resulting from taking a substance into the body via ingestion, ordinarily used to denote effects in experimental animals.

Organic Materials: materials which contain two or more carbon atoms. Organic materials are derived from materials that are living or were once living, such as plants or decayed products. Most organic materials are flammable.

Oxidizer: a material necessary to support combustion of a fuel.

Oxidizers: a substance that yields oxygen readily to stimulate the combustion of organic or inorganic matter.

Penetration: the act or process of piercing something. In protective clothing, it typically means passing through zippers, exhalation valves, or other potential openings that exist within the suit.

Permeation: to spread or flow throughout. In the case of protective clothing, it refers to a material's ability to be absorbed and passed into the interior of the clothing.

pH: indication of the acidity or alkalinity of a substance. A pH from 1 to 7 is acidic and from 7 to 14 is alkaline. A pH of 7 is neutral.

Physical States: (solid, liquid, and gas) the physical state a hazardous material may be in plays a role in determining how to control a spill.

Placards: square diamond markers (10 3/4 inch), required on the transporting vehicle such as a truck, tank car, or a freight container 640 cubic feet or larger.

Polymerization: a chemical reaction in which one or more small compounds combine to form larger compounds. A hazardous polymerization is a reaction that takes place at a rate which releases large amounts of energy (usually heat). If hazardous polymerization can occur with a given material, the MSDS usually will list conditions which could start the reaction and since the material usually contains a polymerization inhibitor, the expected time period before the inhibitor is used up should be stated.

Protective Clothing: equipment designed to protect the wearer from heat and hazardous materials contacting the skin or eyes. Protective clothing is divided into three types: structural firefighting, chemical, and high-temperature protective clothing.

Radioactive Materials: materials that spontaneously emit ionizing radiation.

Reactivity: a description of the tendency of a substance to undergo chemical reaction (usually with the release of energy). Undesirable effects such as pressure buildup, temperature increase, formation of noxious toxic, or corrosive byproducts may occur because of the reactivity of a substance by heating, burning, direct contact with other materials, or other conditions of use or storage.

Respiratory Protection: equipment designed to protect the wearer from the inhalation of contaminants. Respiratory is divided into three types: positive pressure self-contained breathing apparatus, positive pressure supplied air respirators, and air purifying respirators.

Saturated, unsaturated: saturated hydrocarbons are those in which the carbon atoms are linked only single covalent bonds. Unsaturated hydrocarbons have at least one multiple bond between two carbon atoms somewhere in the molecule.

Self-Accelerating Decomposition Temperature (SADT): property of organic peroxides. When this temperature is reached by some portion of the mass of the decomposition organic peroxide, irreversible decomposition will begin

Sensitizer: a substance which on first exposure causes little or no reaction in humans or test animals but which on repeated exposure may cause a marked response not necessarily limited to the contact site. Skin sensitization is the most common form of sensitization in the industrial setting, although respiratory sensitization to a few chemicals is also known to occur.

Shipping Paper: a shipping order, bill of lading, manifest, or other shipping document issued by the carrier.

Solution: mixture in which all of the ingredients are completely dissolve. Solutions are composed of a solvent and a dissolved substance.

Solubility: a measure of the amount of a substance that will dissolve in another substance.

Span-Of-Control: the supervisory ratio of from three to seven individuals with five being established as a general rule of thumb.

Special Protective Clothing: chemical protective clothing specially designed to protect against a specific hazard or corrosive substances.

Specific Gravity: the weight of a substance compared to the weight of an equal volume of water; an expression of the density (or heaviness) of the material.

Strength: the degree to which a corrosive ionizes in water.

Sublimation: the ability of a substance to change from the solid to the vapor phase without passing through the liquid phase.

Temperature of product: the temperature of the material within its container. The material's temperature will influence both the ranges of hazards and potential countermeasures. Temperatures are usually measured in Fahrenheit (F) or Centigrade (C).

Teratogen: a substance to which exposure can result in malformations to the fetus.

Toxic: poisonous will cause damage to the human body when present in small amounts. The degree of toxicity will vary with different toxic materials, the amount of physical exposure, and the amount of exposure time.

Toxic Materials: substances that can be poisonous if inhaled, swallowed, absorbed, or introduced onto the body through cuts or breaks in the skin.

Toxic products of Combustion: the toxic byproducts of the combustion process.

Toxicity: the sum of adverse effects resulting from exposure to a material, generally by ingestion, skin, or inhalation.

Unstable Materials: substances capable of rapidly undergoing chemical changes or decomposition.

Unified Command: a method for all agencies or individuals who have jurisdictional responsibility and in some cases have functional responsibility at the incident to contribute to determining overall objectives for the incident and selection of a strategy to achieve the objective.

Upper Explosive Limit: (UEL) also known as UFL or upper flammable limit of a vapor or gas; the highest concentration (highest percentage of the substance in air) that will produce a flash of fire when an ignition source (heat, arc, or flame) is present. At higher concentrations, the mixture is too rich to burn.

Vapor: a gas given off with or without the aid of heat, by substances that under ordinary circumstances are either solid or liquid.

Vapor Density: the weight of a given volume of pure vapor or gas compared to an equal volume of dry air at the same temperature and pressure. A number less than one indicates a vapor lighter than air; a number greater than one indicates a vapor heavier than air.

Vapor Pressure: the pressure exerted by the vapor within the container against the sides of a container. This pressure is temperature dependent; as the temperature increases, so does the vapor pressure. Vapor pressures reported on MSDS's are in millimeters of mercury (mm Hg) at 68°F, unless stated otherwise. The following facts are important to remember:

- Vapor pressure of a substance at 100°F will always be higher than the vapor pressure of the substance at 68°F.
- Vapor pressures reported on MSDS's in mm Hg are usually very low pressure; 760 mm Hg is equivalent to 14.7 psi.
- The lower the boiling point of a substance, the higher its vapor pressure.

Vesicants (blister agents): a chemical agent that produces local irritation and damage to the skin and mucous membranes, pain and injury to the eyes, reddening and blistering of the skin, and damage to the respiratory system when inhaled.

Viscosity: the flow resistance of a liquid. This characteristic increases or decreases with the temperature of the liquid. Low viscosity liquids have little adhesive qualities and hence flow freely.

Volatility: the tendency or ability of a liquid to vaporize (evaporate).

Warm Zone: the area where personnel and equipment decontamination and hot zone support takes place. It includes control points for the access corridor and thus assists in reducing the spread of contamination this is also referred to as the decontamination, contamination reduction, or limited access e/corridor.

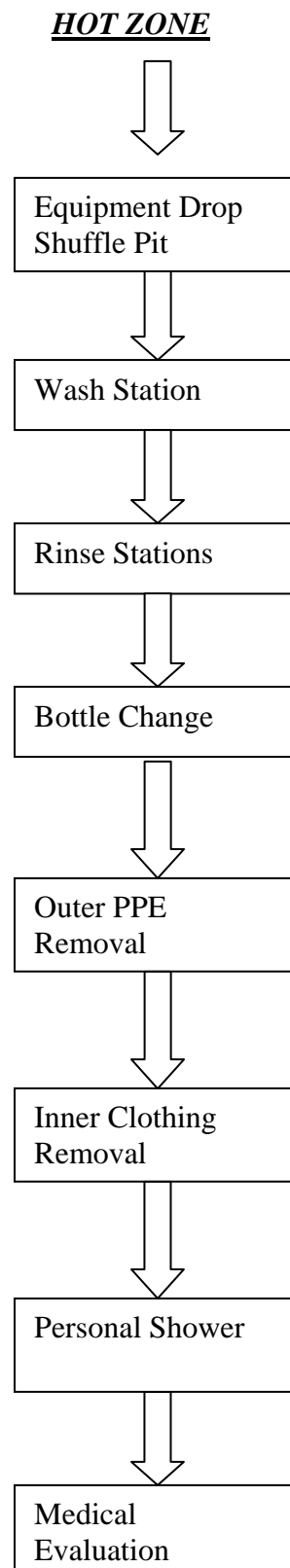
Water Reactive Materials: substances, generally flammable solids that will react in varying degrees when mixed with water or when they come in contact with humid air.

Water Solubility: the ability of a liquid or solid to mix with or dissolve in water.

Waybill: the shipping paper used by the railroads indicating origin, destination, route, and product. There is a waybill for each car and the conductor carries them.

Sample of Decontamination Corridor

This is a sample of a multiple step decontamination corridor. Decontamination Corridors will vary based on local jurisdictional SOP's, however, all decontamination corridors will have these steps involved in the decontamination process.



**APPENDIX C
IN-HOUSE TEST AND
CERTIFICATION REQUEST
FORMS**

Tester Instructions for “In-House” Comprehensive Examination

As the training officers for your department you are authorized by DFPES to conduct the 100% skills test for this level of certification. You must be certified to the level that you are testing, i.e., if you’re FF2 you can test FF1 and FF2, Hazardous Material Operations.

***PRIOR TO CONDUCTING TEST, REVIEW TRAINING RECORDS**

It is important that before doing this “In-House” exam that the candidate has completed training in all areas for the level being tested. ***SAFETY OFFICER SELECTED AND BRIEFED**

Select a Safety Officer to assist you during the test. This person, if possible, should not be taking the same test that is being given. The Safety Officer will not assist with the testing process. The Safety Officer is there to protect the CANDIDATES from injury during the testing process. The Safety Officer shall be in a position to observe all students and ensure their safety at all times during the testing procedure.

By using the following instructions you will be able to evaluate the skill being tested and determine the candidate’s readiness for the State “Spot Check” exam.

1. Keep in mind this is a **test** and there should be **no coaching or training** during the testing process. If a candidate fails to perform a skill, it will count as a first attempt failure and they will be given a second attempt. If they fail a second time they need to be retrained on that skill and tested again. Only **qualified** candidates that have passed with **100%** should be allowed to take the State SPOT CHECK exam.
2. Before beginning the testing process meet with all candidates and review the testing process. Explain that this is a **test** and that the same process being used for the “In-House” will be used during the state exam.
3. Designate a secure location for the candidates to remain in while the “In-House” exam is conducted. This location should be away from the area where the exam is being conducted.
4. If possible, separate your testing stations so candidates cannot observe each other during the test.
5. To evaluate a candidate’s performance, use the following as a guide.
 - a. the skill is completed in the allotted time,
 - b. competence is shown by completing all performance criteria,
 - c. safety is shown while completing the skill.
6. At each test station the tester will read the **SKILL** to be demonstrated, the **CONDITIONS** to be met and the **TIME** limit to complete each skill. This information is contained in the skill section of each standards packet. Do this with each student as they come to each testing station. Ask for any questions. As each skill is tested and completed, sign it off in the section provided on the candidates training record. By conducting the “In-House” test in this manner, you will prepare your candidates to successfully pass the state “spot check” exam. This will also assure training records are current and only those who are truly prepared take the state certification examination.

Wyoming Department of Fire Prevention & Electrical Safety
EXAMINATION REQUEST / CERTIFICATION REQUEST FORM

Please complete all information on BOTH sides of this form and return to the DFPES at least **30 days prior** to the requested examination date. A separate request **MUST** be made for each level of certification exam desired and for each exam date. Phone Number: 307-777-7288. FAX: 307-777-7119

Department Information

Department Name: _____

Examination Request for Written / Skills – Circle the appropriate level

WRITTEN Examination: Firefighter I Firefighter II HMA HMO ADO –Aerial ADO – Pumper HMT

MANIPULATIVE Examination: Firefighter I Firefighter II HMO ADO –Aerial ADO – Pumper HMT

Requested Date and Time: _____

Number taking Written Examination: _____ Number taking Manipulative exam: _____

Examination Location: _____

Street Address: _____ City/State: _____ Zip: _____

By your signature below we acknowledge that training records exist to support that each individual who will attend the exam has received a learning experience in each subject area required for testing and has met all other requirements for the level being examined for as specified in the Certification Policy and Procedures. Department requesting the above exam, will have appropriate space and safe accommodations and equipment for all written and manipulative skills.

 Fire Chief/Head of Department (Signature)

 Training Officer (Signature)

 Fire Chief/Head of Department (typed/printed)

 Training Officer (type/printed)

Certification Request

Department Mailing Address

Daytime Phone Number

Second contact number

The following department or agency requests that the Department of Fire Prevention & Electrical Safety certify the individuals listed on reverse side of this form. **NOTE: The original "Training Record" of the individuals must be sent with this form - if the "Training Record" has not been presented to the DFPES during a "Spot Check Skills" testing event. Please keep a copy of the "Training Record" for your files.**

Department Name _____

By my signature below, I attest that the individuals listed on the reverse side of this form have completed all requirements for certification as defined in the Wyoming Firefighters Policy and Procedures Manual.

 Fire Chief/Head of Department (Signature)

 Fire Chief/Head of Department (Typed/Printed)

Department Mailing Address

Daytime Phone Number

Second contact number

Department Name: _____ Date: _____

Type or print names and SSN of participants who will be taking the examination.

APPLICANT NAME	SSN	LEVEL REQUESTED
1. _____	_____-_____-_____	_____
2. _____	_____-_____-_____	_____
3. _____	_____-_____-_____	_____
4. _____	_____-_____-_____	_____
5. _____	_____-_____-_____	_____
6. _____	_____-_____-_____	_____
7. _____	_____-_____-_____	_____
8. _____	_____-_____-_____	_____
9. _____	_____-_____-_____	_____
10. _____	_____-_____-_____	_____
11. _____	_____-_____-_____	_____
12. _____	_____-_____-_____	_____
13. _____	_____-_____-_____	_____
14. _____	_____-_____-_____	_____
15. _____	_____-_____-_____	_____
16. _____	_____-_____-_____	_____
17. _____	_____-_____-_____	_____
18. _____	_____-_____-_____	_____
19. _____	_____-_____-_____	_____
20. _____	_____-_____-_____	_____
21. _____	_____-_____-_____	_____
22. _____	_____-_____-_____	_____
23. _____	_____-_____-_____	_____
24. _____	_____-_____-_____	_____

Send Request form to:
 Department of Fire Prevention And Electrical Safety
 122 W. 25th Street, Herschler 1 West,
 Cheyenne, WY 82002
 Attention: Certification Coordinator