

Texas Fire Chiefs Association
DOCUMENT SUBMISSION FORM

Candidate Department: **Irving Fire Department**

Best Practice Standard: 4.07 Hazardous Materials

Proofs of Compliance Submitted:

1. Hazardous Materials Compliance Document
2. Hazardous Materials Skills Check Off

Submitted By: **Scott Johnson, Program Manager**

Date:

Evaluator's Review

Evaluator:

Date Accepted:

4.07 Hazardous Materials

The agency shall have the capability to respond to and put in service a trained hazardous material team having the capability/training to perform hazardous materials operations Or have a mutual aid agreement in place to request a trained hazardous material team for specialized hazardous materials operations.

Discussion: Although the occurrence of hazardous material incidents needing specialized training and equipment is rare for many fire agencies when a specialized hazardous material incident does present itself the fire department is called upon to respond. The capabilities of the fire agency and its members must be recognized to respond to hazardous material incidents safely and efficiently for the benefit of the public and responders. In the event that the fire agency does not have any hazardous material team rescue capabilities the agency will have provisions or agreements in place to request a neighboring fire agency, regional, or state hazardous material team to assist them, per NFPA 1670, Edition 2009, sections referenced below.

NFPA 1670, Edition 2009, section 4.1.1; “The authority having jurisdiction (AHJ) shall establish levels of operational capability needed to conduct operations at technical search and rescue incidents safely and effectively, based on hazard identification, risk assessment, training level of personnel, and availability of internal and external resources.”

NFPA 1670, Edition 2009, section 4.1.3; “In jurisdictions where identified hazards might require a search and rescue capability at a level higher than awareness, a plan to address this situation shall be written”.

NFPA 1670, Edition 2009, section 4.2.1; “The AHJ shall conduct a hazard identification and risk assessment of the response area and shall determine the feasibility of conducting technical search and rescue operations”, in regards to confined space rescue.

NFPA 1670, Edition 2009, section 4.2.3, 4.2.4 and 4.2.5; The AHJ shall identify hazardous material internal resources and external resources to augment internal resources to respond to these type of incidents. There shall be a procedure to acquiring external resources for hazardous material incidents.

Proof of Training and Operational Response Compliance:

- Copy of written policy/directive on response to hazardous materials incidents ([IFD Emergency Response Guideline 8.1](#)), **Or**
 - Copy of written policy/directive on requesting hazardous materials team **And**
- Copy of Mutual Aid Agreement providing request/response of another agency's or regional hazardous material team (*Unnecessary since we have a team however our Mutual Aid agreement will work for this requirement*) **then the following items listed below:**
- AHJ has established guideline for on-scene “Accountability” of member, while maintaining member’s safety. The AHJ should refer to [NFPA 1670, Edition 2009, 4.1.12.1 and 4.1.12.2](#) as a reference in helping establish this guideline, **And** ([This Standard refers to Technical Rescue, however our “Accountability” system should address this satisfactorily.](#))

- AHJ has established guideline for members to recognize the need for hazard materials event and what initial response is needed to maintain member's safety. The AHJ should refer to NFPA 472, Edition 2008, 4.1.1.1 (This is in reference to First Responders "Awareness" level personnel. All IFD personnel are at the "Operations" level and is covered in IFD ERG 8.1 section H), in establishing this guideline which includes the members using the DOT Emergency Response Guidebook to initiate protective actions and notifications process to hazardous material incident (Added to IFD ERG 8.1 B. 4), And
- AHJ has established guideline to establishing Hazard Control Zones (Hot, Warm, and Cold), per NFPA 1500, Edition 2007, 8.6.2 hazard control zones (IFD ERG 8.1 section E), And
- AHJ has established guideline for its members entering hazmat environment with PPE including SCBA and IDLH detection equipment for hazmat incidents or training incidents (IFD ERG 8.1 section E.1 and 2), And
- AHJ has established guideline for staffing and equipping intervention crew to rescue other members during IDLH environments; AHJ should reference NFPA 1500, Edition 2007, 8.8 Rapid Intervention for Rescue Members when developing their guideline (IFD ERG 8.1 section C.1.b and IFD ERG 18.2), And
- AHJ has established guideline when air-purifying respirators (APRs) and powered air-purifying respirators (PAPRs) can be worn by its members; AHJ should reference NFPA 1500, Edition 2007, 7.8.3.1, 7.8.3.2, 7.11.2 Supplied-Air Respirators and 7.11.3 Full Face-piece Air-Purifying Respirators when developing this guideline (Unnecessary as IFD does not utilize APR's or PAPR's, we comply with NFPA 1500, 2007 7.8.3.2 in using SCBA's for all unknown's), And
- AHJ has established a guideline for "Entrance Requirements". The AHJ should refer to NFPA 1006, Edition 2007, 4.2 "Entrance Requirements" as a Reference in establishing this guideline (The requirements in NFPA 1006 are for Technical Rescue entrance). Hazmat entrance requirements are covered in NFPA 472 and IFD ERG 8.1 addresses this, And
- AHJ has established job performance competencies or the member's during hazardous material incident per NFPA 472, Edition 2007, Chapter #4, #5, #6 and #7 or equivalent training based on AHJ needs assessment. AHJ should reference Texas Commission on Fire Protection (TCFP) curriculum standards for Hazmat Materials in Chapter # 6 when determining the competencies (See attached proposed IFD Annual Manipulative Skills Competency Forms for Hazardous Materials Technicians and First Responders), **And**
- AHJ has established job performance competencies for the incident commander during a hazardous material incident per NFPA 472, Edition 2007, Chapter # 8 or equivalent training based on AHJ needs assessment. AHJ should reference Texas Commission on Fire Protection (TCFP) curriculum standards for Hazmat Materials in Chapter # 6 when determining the competencies, (See attached (proposed IFD Manipulative Skills Competency Form for Incident Commanders), **And**
- AHJ will have all members that are hazardous material technician level meet Texas Commission on Fire Protection continuing education standards, per Title 37, Part 13, Chapter 441, Rule 444.17 requirements (IFD ERG 8.1 section H.2), And

- Documentation and Training on rope rescue job performance requirements for members will be kept per AHJ standards. The AHJ should refer to NFPA 1670, Edition 2009, 4.1.10 Training through 4.1.10.5 Documentation, as a reference in establishing these guidelines (This standard refers to Technical Rescue Team).

Proof of Equipment Compliance:

- AHJ has a gas detector that has the minimum detection capabilities of CO, LEL, and Oxygen levels with a guideline that address manufacture maintained standards. Gas detector will be used to identify an IDLH environment during hazmat entries (IFD utilizes the QRAE Plus 4 gas and SENSIT Gold 4 gas monitors each is equipped with CO, LEL Oxygen and HS2 sensors. Calibration and maintenance done at station 8, records are maintained), And
- AHJ hazmat ensembles that meet NFPA 1991 Standard on Vapor-Protective Ensembles for Hazmat Material Emergencies (Kappler Responder Level A) and NFPA 1992 Standard of Liquid Splash-Protective Ensembles (St. Gobain One Suit Level A) and Clothing for Hazmat Materials Emergencies shall be cared for per manufactures recommended standards in regards to annual testing standards and climate controlled requirements (Pressure testing is done per manufacturer instructions and records are maintained) , And
- AHJ has an established process making sure that all specialized equipment is meeting manufacture standards in regards to annual testing, calibrations, and testing to confirm the device is working properly (All Monitors and equipment are tested and calibrated to manufacturers standards and records are maintained at Station 8).

HAZARDOUS MATERIALS OPERATIONS LEVEL MANIPULATIVE SKILLS

INTRODUCTION

The following Manipulative skills are based on the objectives listed in the National Fire Protection Association (NFPA) 472, Chapter 5, 6.2 and 6.6 Standard *for Professional Competence of Responders to Hazardous Materials Incidents*.

All members shall be trained to the operations level responder and be required to demonstrate competency annually.

Operations level responders shall be able to:

- Analyze a hazardous materials/WMD incident.
- Plan an initial response to a hazardous materials/WMD incident.
- Implement the planned response for a hazardous materials/WMD.
- Evaluate the progress of the actions taken at a hazardous materials/WMD incident.

Manipulative Skills Examination

Station 8 Officers shall be responsible for conducting the annual skills competency examination. The manipulative skills examination is graded on a 100% pass/fail basis. A record of manipulative skills competency testing will be made by Station 8 officers for all members tested.

Each of the manipulative skill objectives shall be completed swiftly, safely and with competence as defined below:

- Swiftly** -Each manipulative skills objective must be completed within a reasonable time frame.
- 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 IFD training. This includes performing the proper steps in sequence. Competence will be measured by satisfactory completion of all manipulative skill objectives.

Participants will be spot tested on **THREE (3)** manipulative skills to be selected by the testing officer from the attached list of manipulative objectives included. Participants shall not receive prior notification of the skills being tested. Participants are given two attempts if necessary to perform each skill. Participants are given two attempts if necessary to perform each skill. Participants who successfully complete critical components of the skills test will be deemed to have demonstrated competency, participants who do not, will be given a second attempt to pass. Should the participant fail on the second attempt, they will have failed to demonstrate manipulative skills competency and will be required to complete further training on those areas that were not successfully completed. A retest will be scheduled for a later date during the training year. Retests will include the failed skill and one (1) additional skill to be selected by the testing officer.

MANIPULATIVE SKILL OBJECTIVES

DECONTAMINATION

NFPA 472, 5.1.2.2(3), 5.1.2.2(3) d - e, 5.3.3, 5.4.1(4)

Skill 1: Demonstrate Emergency Decontamination of a victim using water.

CONDITION: Given water supply, hose/nozzles, necessary decon equipment, victim dressed in splash suit, fighter turnouts or street clothing, and a 2-firefighter team. Appropriate PPE for responders:
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Select appropriate site to minimize runoff contamination.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Responder directs victim on procedures.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Rinse personnel starting from the head, working towards the feet.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Victim being deconned removes contaminated clothing as much as possible.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Responder establishes runoff containment or control as needed.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Victim places contaminated articles in one designated area within contamination zone.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. Victim given protective clothing.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8. Victim directed to exit area for further evaluation.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.1.2.2(3) a – e, 5.4.1, 5.4.2

Skill 2: Demonstrate the setting up of a multiple station decontamination corridor.

CONDITION: Given equipment as determined by Testing Officer, a 2-member team and using the incident management system.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Establish and enforce scene control.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Select appropriate site, up wind of incident, drainage towards “hot” zone.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Base protection layer (Visqueen or Tarp).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Clearly marked entry and exit point to decon corridor.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Containment of decon solutions and runoff water.		
6. Tool drop.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. Gross decon station w/water supply.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8. PPE drop station(s).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
9. Personal decon station w/water supply.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
10. SCBA drop/Bottle change.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
11. Gather decon equipment (brushes, sprayers, decon solutions, etc.)	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

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

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.1.2.2(3) e, 5.3.3, 5.4.1(4), 5.4.2, 5.4.4(6-7)

Skill 3: Demonstrate decontamination of emergency responder.

CONDITION: Given a Decon corridor, established decon site, water supply, hose/nozzles, a 2-member team, and a responder dressed in appropriate level of protection to be decontaminated. D e c o n T e a m P P E as determined by incident Decon Officer:

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Direct responder to enter entry point.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Direct responder to drop tools in designated area.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Direct and assist responder to enter wash station.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Gross decon of personnel starting from the head.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Decon team members remove contaminated PPE or clothing to avoid contaminating responders.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Simulate personal decon.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. Direct responder to drop SCBA on designated area.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8. Direct responder to remove SCBA.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
9. Decon personnel control run-off of wash station.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
10. Direct responder to exit designated point for:	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Inner clothing removal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Personnel shower	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Medical evaluation	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
11. Simulate decon of decon personnel.	<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"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

PERSONAL PROTECTIVE EQUIPMENT

NFPA 472, 5.1.2.2(2)c

Skill 4: Demonstrate donning structural fire gear including Self-Contained Breathing Apparatus (SCBA).

CONDITION: Given Structural Fire Gear, and Self-Contained Breathing Apparatus as used by department.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Don Fire gear in a safe and timely manner.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Fire gear is properly secured.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Don SCBA in safe and timely manner.		
4. Face piece assembly is properly fitted	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Doff SCBA and place on SCBA drop.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Doff Fire gear and place on PPE drop.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.3.3(1), 5.4.4(7), 6.2.4.1, 6.2.4.1(3)

Skill 5: Demonstrate donning and doffing Level B Splash PPE.

CONDITION: Given a Level B Splash PPE, Structural fire boots, protective over boots and SCBA.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
Donning		
1. Don Level B Splash PPE.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Don Chemical protective gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Don Protective foot wear to include protective over boots.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Don SCBA.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Doff SCBA and place on SCBA drop.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Doff Level B PPE and place on PPE drop.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.3.3, 5.4.4, 6.2.3.1, 6.2.3.1(3), 6.2.4.1, 6.2.4.1(3)

Skill 6: Assist emergency response personnel in donning Level A PPE to include SCBA.

CONDITION: Given a Level A PPE, boots, gloves, helmet, SCBA, a H/M Technician, and a 2-member team.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
- Set up dressing stool.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Assist assembling PPE to be donned.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Assist donning inner gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Assist donning Level A suit to half way point.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Assist donning boots.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Assist donning SCBA.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Complete donning of suit.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Assist donning outer gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Connect regulator and place responder on air.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Zip up suit (be sure zipper enclosure is complete).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Seal zipper enclosure	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Assist responder to feet.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

PERFORMING DEFENSIVE CONTROL ACTIONS

NFPA 472, 6.6.4.1(3)g

Skill 7: Demonstrate stopping Hydrocarbon release utilizing Epoxy Putty.

CONDITION: Given a simulated spill from a fuel tank or fuel line, Epoxy Putty, PPE, and a 2-firefighter team:
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Don proper PPE.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Confirm location of leak.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Mix Epoxy Putty.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Approach leak location safely staying out of product.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Apply Epoxy Putty.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Exit area maintaining team integrity.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 6.6.3.1, 6.6.4.1, 6.6.4.1(3)

Skill 8: Demonstrate implementation of IFD Hydrocarbon ERG 6.4.

CONDITION: Given a simulated spill, IFD Hydrocarbon spill kit, oil-sorb, PPE for responders, and a 2-firefighter team:
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	<u>Y N</u>	<u>Y N</u>
1. Gather Hydrocarbon spill kit.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Approach spill in safe manner (Avoid product if possible).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Apply oil-sorb and sweep around to absorb hydrocarbon.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Recover used oil-sorb and bag for disposal.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Fill out proper document for disposal (TxDOT form).	<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:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 6.6.3.1, 6.6.4.1, 6.6.4.1(1 & 3)

Skill 9: Demonstrate the proper application of fire fighting foam on a simulated hazardous materials spill or fire.

CONDITION: Given a simulated spill (36 sq. ft.), foam application system (apparatus or foam extinguisher), PPE, and a 3 man team:
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Approach spill upwind/upgrade.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Operate foam distribution system to deliver proper foam.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Demonstrate proper application techniques.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Do not direct stream directly into pool.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Deflect foam off solid surface or "rain" onto surface.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 6.6.3.1, 6.6.4.1, 6.6.4.1(3)

Skill 10: Construct a dike to divert a spill.

CONDITION: Given a simulated moving spill, sand or dirt, shovels, plastic or tarp, PPE, and a 3- person team:
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	<u>Y N</u>	<u>Y N</u>
1. Construct a dike 6 feet long and 6 inches high.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Work ahead of spill, out of product.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Two personnel build dike and one standby as safety.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Divert spill.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

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

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 6.6.3.1, 6.6.4.1, 6.6.4.1(3)

Skill 11: Construct a simple dam to retain a spill.

CONDITION: Given a simulated spill, sand or dirt, shovels, plastic or tarp, PPE, and a 3-person team:

*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Construct a dam 6 feet long and 8-12 inches high.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Work ahead of spill, out of product.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Two personnel build dam and one member to standby as safety.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Retain spill.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 6.6.3.1, 6.6.4.1, 6.6.4.1(3)

Skill 12: Demonstrate the use of absorbent material to control a spill of a hazardous material.

CONDITION: Given a simulated spill, absorbent pad or other material, shovels, PPE, and a 3- person team,;
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	<u>Y N</u>	<u>Y N</u>
1. Retain spill by putting absorbent materials in place.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Work ahead of spill, out of product.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Two personnel to put materials in place and one member to standby as safety.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.2.3 (3)

Skill 13: Identify hazard and response information using MSDS

Condition: Given an MSDS the candidate will identify information from the sheet as asked by the tester.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
1. Verbally identifies the physical and chemical characteristics of the material (will the material float or sink in water, is the vapor lighter or heavier than air)	Y/N	Y/N
2. Verbally identifies the physical hazards of the material	Y/N	Y/N
3. Verbally identifies the health hazards of the material	Y/N	Y/N
4. Verbally identifies the signs and symptoms of exposure to the material	Y/N	Y/N
5. Verbally identifies the routes of entry into the body (most common)	Y/N	Y/N
6. Verbally identifies the permissible exposure limits	Y/N	Y/N
7. Verbally identifies the responsible party contact	Y/N	Y/N
8. Verbally identifies the precautions for safe handling (including hygiene practices, protective measures, and procedures for cleanup of spills and leaks)	Y/N	Y/N
9. Verbally identifies the applicable control measures, including personal protective Equipment	Y/N	Y/N
10. Verbally identifies the emergency first aid procedures for eye contamination	Y/N	Y/N

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"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 6.2.5.1

Skill 15: **Demonstrate use of Emergency Response Guide**

Condition: Given a current ERG, simulated hazardous materials, participant shall:

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
1. Find appropriate guide using UN/NA number.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Find appropriate guide using product name.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Find appropriate guide using Placard.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Find appropriate guide using container shape.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Determine initial isolation and protection distance for small spill.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Determine initial isolation and protection distance for large spill.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. Determine Toxic Inhalation Hazard (TIH) for a given product by ID number, Guide number or product name.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

Tester Instructions for Manipulative Skills Testing

Standard and skill(s) being tested:

Date: _____

Location: _____

Testers: Please review the following procedures and follow them as outlined when testing.

During testing, there will be two assigned testers. One will be the **lead tester** and the other the **safety officer**. If a candidate fails and needs to retest any portion, the testers will trade positions and retest the candidate with the lead tester now the safety officer and the safety officer now the tester.

As **safety officer**, you will not assist with the testing process. You are there to protect the participant from injury during the testing process. The safety officer should ensure that all participants testing wear appropriate PPE and all equipment is in safe working condition. The safety officer shall always be in a position to observe all participants and ensure their safety at all times during testing.

Testing Procedures

Testers will score the participants in the following manner:

- A.** **Swiftly** completing the skill in a reasonable time, exercising **safety** in completing the skill, and show **competence** by completing all performance criteria.
- B.** Candidates must pass all critical competencies to pass the individual skill. If they do not do this they fail the first attempt. Candidates are given two attempts on the first test date. If a participant fails to show competency in a given skill, he/she will be required to obtain further training in that skill prior to retesting.
- C.** Testers will not coach or instruct during the testing process.
- D.** Testers will ensure that all equipment is in safe working condition and ensure that all participants are wearing appropriate PPE during the test as required by the skills being tested.

While administering the test, the tester will read the skills to be demonstrated and the conditions to be met.

The tester will ask for any questions. Questions will not be answered after the testing on a skill begins.

- A. Candidates may take time to discuss a plan of action with their team mate before the skill begins.
- B. Candidates should verbally state, to the tester, that they are ready to begin the skill.
- C. Candidates are encouraged to verbalize during the completion of the skill competencies.
- D. Candidates should verbally state to the tester that they have completed the skill.
- E. Inform the candidates that there should be no running during the test. This is considered a safety violation and will not be tolerated.
- F. Leaving the testing area will not be permitted. The only exception to this rule is if a participant(s) is summoned to an emergency run. Testing will resume on their return if it is less than one hour or if testing is still being conducted.

Skill testing sheets will be completed by the lead tester including date, name of tester(s), candidate name, pass or fail and signed by both tester and candidate. **Sheets shall be given (or sent via inter-office mail) to the participants Station Officer for placement in his/her station file.**

Post Test

1. Conduct a briefing with the participants.
2. Thank them and ask if there are any questions.
3. If there are any problems or concerns to write them down and forward to the certification committee.
4. If after a second attempt at a given skill, the participant has failed to demonstrate competency, the testing officer shall notify participants Station Officer about needed retraining and set a date for retesting.
5. Make sure all equipment is returned to service.