



Nevada Fire Service Certification System

Hazardous Material Operations Candidate Manipulative Skills Manual

Fire & Hazardous Material Training & Certification Bureau
NFPA 472 2013 Edition
Revised August 2014



OPERATIONS MANIPULATIVE SKILL OBJECTIVES

REPORTING AND DOCUMENTATION

1. Demonstrate procedures for establishing and transferring command at a Hazardous Materials/WMD incident, utilizing an incident management system.

REFERENCE: NFPA 472, 5.1.2.2(3)(c) 2013 Edition

CONDITION: Given a Local Emergency Response Plan (LERP) provided by the Authority Having Jurisdiction (AHJ), a scenario for a Hazardous Materials/WMD incident and an Emergency Response Guide (ERG) and a tactical worksheet as provided by AHJ.

COMPETENCE:

- Given a brief size-up:
 - Unit on scene
 - Location
 - Nature of incident (i.e. Containers, location, nearby exposures, risks)
 - Current conditions (This is what I see)
- Identify material.
- Identify the isolation zones
- Implement appropriate emergency operations
- Implement site safety and control plan
- Designate a safety officer
- Establish Incident Command & Accountability and announce location
- Name the Incident

2. Brief assigned personnel so that the personnel are informed of specific tasks, standards, safety, operational, and special interest area considerations for the following:

REFERENCE: NFPA 472, 5.5.2, 2013 Edition

CONDITION: Given one of two scenarios involving HAZMat/WMD incidents, including a completed Incident Action Plan

COMPETENCE:

- Status of incident
- Hazards identified
- Tasks to be performed
- Description of the site
- Expected duration of the tasks
- PPE requirements
- Monitoring requirements
- Describe emergency radio traffic procedures
- Describe evacuation signal procedures

3. Identify and complete the reporting and documentation requirements within the emergency response plan or IAP regarding PPE.

- REFERENCE: NFPA 472, 6.2.5.1, 2013 Edition
- CONDITION: Given a scenario and a blank ICS 202 & ICS 204 or other documents used by the AHJ to meet FEMA and/or department SOG's, document the type of PPE required by the scenario and special instructions.
- COMPETENCE:
- ICS 202 General Safety Message
 - *Requires the use of PPE when exposures are expected.
 - Fill out the ICS 204 Special Instructions
 - Identify type of PPE required by scenario
 - Identify when it is to be worn
 - Reinforce compliance

DECONTAMINATION

4. Demonstrate Emergency Decontamination of a victim using water.

- REFERENCE: NFPA 472, 5.1.2.2(3), 5.3.4, 2013 Edition
- CONDITION: Given water supply, hose/nozzles, 2-firefighter team. Victim to be decontaminated are to be dressed in fire fighter turnouts or street clothing.
Firefighter PPE and SCBA.
*PPE donned before skill begins.
- COMPETENCE:
- Select appropriate site to minimize runoff contamination.
 - Responder directs victim on procedures.
 - Rinse personnel starting from the head, working towards the feet.
 - Victim being decon removes contaminated clothing as much as possible.
 - As necessary, decon team member's touch outside of clothing being removed to avoid cross contamination.
 - Victim places contaminated articles in one designated area within contamination zone.
 - Victim given protective clothing.
 - Victim directed to exit area for further evaluation

5. Demonstrate the setting up of a multiple station decontamination corridor.

- REFERENCE: NFPA 472, 6.2.4.1(3)(4), 6.6.4.2, 2013 Edition
- CONDITION: Given equipment as determined by incident and qualified hazmat technician, 2-member team.

5. Demonstrate the setting up of a multiple station decontamination corridor (cont.)

- COMPETENCE:
- Select appropriate site, up wind of incident, drainage towards "hot" zone.
 - Clearly marked entry point.
 - Tool drop.
 - Confinement of decon solutions and runoff water.
 - Wash station, (may be multiple).
 - Rinse station, (may be multiple).
 - SCBA drop/Bottle change.
 - PPE drop station(s).
 - Clearly marked exit point.

6. Demonstrate decontamination of emergency responder.

REFERENCE: NFPA 472, 6.2.4.1(3)(4), 6.6.4.2, 2013 Edition

CONDITION: Given a decon corridor, water supply, hose/nozzles, 2-member team, a responder dressed in appropriate level of protection to be decontaminated. At the minimum, Firefighter PPE and SCBA for a person performing decontamination shall be worn.

- COMPETENCE:
- Direct responder to enter entry point.
 - Direct responder to drop tools in designated area.
 - Direct responder to enter wash station.
 - Rinse personnel starting from the head.
 - Decon personnel control run-off of wash station.
 - Direct responder to drop SCBA in designated area.
 - Decon team member's touch outside of clothing being removed to avoid contaminating responders.
 - Remove contaminated PPE or clothing.
 - Place contaminated articles in one designated area within corridor.
 - Direct responder to exit designated point.

PERSONAL PROTECTIVE EQUIPMENT

7. Identify and describe the function of each component of the Self-Contained Breathing Apparatus (SCBA).

REFERENCE: NFPA 472, 6.2.4.1(3), 2013 Edition

CONDITION: Given a Self-Contained Breathing Apparatus (SCBA) used by the responder.

- COMPETENCE:
- Identify and describe backpack/harness
 - Identify and describe air cylinder - cylinder, valve, and pressure gauge
 - Identify and describe regulator assembly - high pressure hose, low pressure alarm, main line valve, and emergency by-pass valve
 - Identify and describe facepiece assembly - low pressure hose, exhalation valve, and head harness

8. Demonstrate donning Self-Contained Breathing Apparatus (SCBA).

REFERENCE: NFPA 472, 6.2.4.1(3), 2013 Edition

CONDITION: Given a Self-Contained Breathing Apparatus (SCBA) used by the responder.

COMPETENCE:

- Crouch or kneel at SCBA.
- Check SCBA cylinder pressure gauge for full level.
- Open cylinder valve fully, verbalize pressure.
- Check regulator and cylinder gauge - gauges should read within 100 psi of each other.
- Don backpack and fasten/tighten all straps.
- Don face piece, adjust head harness.
- Check seal, positive/negative pressure check.
- Don hood over head.
- Don helmet and tighten chin strap (helmet ear flaps down)
- Attach supply hose to regulator **or** face piece.
- Turn on PASS device if needed.
- Don Gloves
- Doff SCBA and place back in service.

Steps may vary between various manufactures; however all of the above should be covered during the donning process.

9. Demonstrate doffing Self-Contained Breathing Apparatus (SCBA).

REFERENCE: NFPA 472, 6.2.4.1(3), 2013 Edition

CONDITION: Given a Self-Contained Breathing Apparatus.

COMPETENCE:

- Disconnect regulator from facepiece or low-pressure hose from regulator.
- Doff SCBA and place on ground, close cylinder valve.
- Relieve excess pressure from regulator, listen for low-pressure alarm.
- Fully extend all straps on SCBA backpack.
- Fully extend all straps on facepiece.
- Inspect entire apparatus for cleanliness and damage.
- Place back in service.

10. Assist/Don emergency response personnel in donning hooded chemical splash protective clothing and SCBA.

REFERENCE: NFPA 472, 6.2.4.1(3), 2013 Edition

CONDITION: Given a hooded splash suit, boots, gloves, duct tape, helmet, SCBA, 2-member team, **one person donning** and **one assisting**.

10. Assist/Don emergency response personnel in donning hooded chemical splash protective clothing and SCBA (cont.)

- COMPETENCE: **Skills for person donning splash suit.**
- Don hooded splash suit.
 - Don boots.
 - Don SCBA.
 - Don face piece.
 - Check face seal.
 - Don inner gloves.
 - Don outer gloves.
 - Don head protection.
- Skills for person assisting in donning of splash suit.**
- Assist donning hooded splash suit.
 - Assist donning boots.
 - Correctly tape suit to boots
 - Completely tape hood of PPE to SCBA face piece, do not cover field of vision on face piece.
 - Assist donning SCBA.
 - Tape front closure area and neck area.
 - Assist donning inner gloves.
 - Assist donning outer gloves.
 - Connect low pressure hose to SCBA regulator.
 - Tab all ends of tape (2" minimum).

11. Demonstrate Donning (and Doffing) Firefighter Turnout Gear/PPE.

- REFERENCE: NFPA 472, 6.2.4.1(3), 2013 Edition
- CONDITION: Given boots, gloves, Nomex hood, bunker bottoms, bunker coat and helmet.
- COMPETENCE: • Don bunker pants.
 • Don boots.
 • Don hood.
 • Don coat.
 • Don helmet.
 • Don gloves.
 • Doff Turnout Gear/PPE

PERFORMING DEFENSIVE CONTROL ACTIONS

12 Demonstrate stopping product release by closing remote valves.

REFERENCE: NFPA 472, 6.2.4.1(3), 6.6.4.1(3)(h), 2013 Edition

CONDITION: Given a simulated spill from a tank, remote valve, and 2-firefighter team.
PPE: Minimum Firefighter Turnouts, SCBA.
*PPE donned before skill begins.

COMPETENCE:

- Confirm location of remote valve.
- Approach valve location staying out of product.
- Open or close valve.
- Exit area maintaining team integrity.

13. Demonstrate use of unmanned master stream (300 gpm or greater) for vapor suppression or dispersion.

REFERENCE: NFPA 472, 6.2.4.1(3), 6.6.4.1(3)(i)(j), 2013 Edition

CONDITION: Given a simulated spill, water supply, appliance, 100 ft. 2 1/2" hose, and 2-person team.
PPE: Minimum Firefighter Turnouts, SCBA.
*PPE donned before skill begins.

COMPETENCE:

- Determine system is set up correctly.
- Signal for water.
- Adjust stream of appliance.
- Flow until evaluator is satisfied.

14. Demonstrate the use of a hoseline to dilute or dispersion vapors on a hazardous materials spill.

REFERENCE: NFPA 472, 6.2.4.1(3), 6.6.4.1(3)(e)(i), 2013 Edition

CONDITION: Given a simulated spill, minimum 1 3/4" attack line, fire apparatus or water supply, 3-person team.
PPE: Minimum Firefighter Turnouts, SCBA.
*PPE donned before skill begins.

COMPETENCE:

- Extend hoseline, open nozzle to bleed air.
- Determine direction of water stream.
- Use hose stream to direct product or vapors
- Work upstream of product
- **Two** personnel to operate hoseline, **one** person to act as safety

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

REFERENCE: NFPA 472, 6.2.4.1(3), 6.6.4.1(1), 6.6.4.1(3)(j), 2013 Edition

CONDITION: Given a simulated spill (36 sq. ft.), foam application system (apparatus or foam extinguisher),
PPE: Minimum Firefighter Turnouts, SCBA.
*PPE donned before skill begins.

COMPETENCE:

- Approach spill upwind/upgrade
- Demonstrate proper application techniques.
- Do not direct stream directly into pool.
- Deflect foam off solid surface or “rain” onto surface.

16. Construct a dike to divert a spill.

REFERENCE: NFPA 472, 6.2.4.1(3), 6.6.4.1(3)(d)(f), 2013 Edition

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

COMPETENCE:

- Construct a dike 6 feet long and 6 inches high.
- Work ahead of spill, out of product.
- Two personnel build dike and one standby as safety.
- Divert spill.

17. Construct a simple dam to retain a spill.

REFERENCE: NFPA 472, 6.2.4.1(3), 6.6.4.1(3)(c)(g), 2013 Edition

CONDITION: Given a simulated spill, sand or dirt, shovels, plastic, 3-person team,
PPE: Minimum Firefighter Turnouts, SCBA.
*PPE donned before skill begins.

COMPETENCE:

- Construct a dam 6 ft. long, 8-12 inches high..
- Work ahead of spill out of product.
- **Two** personnel to build dam and **one** member to standby as safety.
- Retain spill.

18. Demonstrate the use of absorbent/adsorption material to control a spill of a hazardous material.

REFERENCE: NFPA 472, 6.2.4.1(3), 6.6.4.1(3)(a)(b), 2013 Edition

CONDITION: Given a simulated spill, absorbent pad or other material, shovels, 3-person team.

PPE: Minimum Firefighter Turnouts, SCBA.

*PPE donned before skill begins.

COMPETENCE:

- Retain spill by putting absorbent materials in place.
- Work ahead of spill out of product.
- **Two** personnel to build a dike and **one** member to standby as safety.

REPORTING AND DOCUMENTATION

Skill 1: Demonstrate procedures for establishing and transferring command at a Hazardous Materials/WMD incident, utilizing an incident management system.

CONDITION: Given a Local Emergency Response Plan (LERP) provided by the Authority Having Jurisdiction (AHJ), a scenario for a Hazardous Materials/WMD incident and an Emergency Response Guide (ERG) and a tactical worksheet as provided by AHJ.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	Y	N	Y	N
1. Given a brief size-up:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Unit on scene				
• Location				
• Nature of incident (Container, location, nearby exposures, risks)				
• Current conditions (This is what I see)				
2. Identify material.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Identify the isolation zones.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Implement appropriate emergency operations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Implement site safety and control plan.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Designate a safety officer.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Establish Incident Command & Accountability and announce location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Name the Incident.	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

(Please Print)

Notice to Evaluators: Candidate must sign for **2nd attempt failures**. By this signature the candidate is notified that he/she has failed this skill and will be require to take a 3rd and final attempt, no sooner than 30 days from today's date. The 3rd attempt will consist of **this skill** plus **one additional skill** from this same area of the standard.

Candidate's Signature: _____

Skill 2: Brief assigned personnel so that the personnel are informed of specific tasks, standards, safety, operational, and special interest area considerations.

CONDITION: Given one of two scenarios involving HAZMat/WMD incidents, including a completed Incident Action Plan.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
1. Status of incident.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Hazards identified.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Tasks to be performed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Description of the site.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Expected duration of the tasks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. PPE requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Monitoring requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Describe emergency radio traffic procedures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Describe evacuation signal procedures.	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

(Please Print)

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Candidate's Signature: _____

Skill 3: Identify and complete the reporting and documentation requirements within the emergency response plan or IAP regarding PPE.

CONDITION: Given a scenario and a blank ICS 202 & ICS 204 or other documents used by the AHJ to meet FEMA and/or department SOG's, document the type of PPE required by the scenario and special instructions.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
1. ICS 202 General Safety Message. *Requires the use of PPE when exposures are expected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Fill out the ICS 204 Special Instructions. -Identify type of PPE required by scenario -Identify when it is to be worn -Reinforce compliance	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

(Please Print)

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Candidate's Signature: _____

DECONTAMINATION

Skill 4: Demonstrate "Emergency" decontamination of a victim using water.

CONDITION: Given water supply, hose/nozzles, 2-firefighter team. Victim to be decontaminated are to be dressed in fire fighter turnouts or street clothing.
 Firefighter PPE and SCBA.
 *PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
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 decon removes contaminated clothing as much as possible.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. As necessary, decon team member's touch outside of clothing being removed to avoid cross contamination.	<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:

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

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

(Please Print)

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Candidate's Signature: _____

DECONTAMINATION

Skill 5: Demonstrate the setting up of a multiple station decontamination corridor.

CONDITION: Given equipment as determined by incident and qualified hazmat technician, 2-firefighter team.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
1. Select appropriate site, up wind of incident, drainage towards "hot" zone.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Clearly marked entry point.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Tool drop.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Confinement of decon solutions and runoff water.	<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(s)	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

(Please Print)

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Candidate's Signature: _____

DECONTAMINATION

Skill 6: Demonstrate decontamination of emergency responder.

CONDITION: Given a decon corridor, water supply, hose/nozzles, 2-member team and a responder dressed in appropriate level of protection to be decontaminated. At the minimum, Firefighter PPE and SCBA for a person performing decontamination shall be worn.

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 responder to enter wash station.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Rinse personnel starting from the head.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Decon personnel control run off of wash station.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Direct responder to drop SCBA in designated area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Decon team member's touch outside of clothing being removed to avoid contamination responders.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Remove contaminated PPE or clothing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Place contaminated articles in one designated area within corridor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Direct responder to exit designated 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"/>

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

(Please Print)

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Candidate's Signature: _____

PERSONAL PROTECTIVE EQUIPMENT

Skill 7: Identify and describe the function of each component of the Self Contained Breathing Apparatus (SCBA).

CONDITION: Given a Self-Contained Breathing Apparatus (SCBA) used by the responder.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
1. Identify and describe backpack/harness.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Identify and describe air cylinder - cylinder, valve, and pressure gauge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Identify and describe regulator assembly – high pressure hose, low pressure alarm, main line valve, and emergency by pass valve.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Identify and describe facepiece assembly - low pressure hose, exhalation valve, and head harness.	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

(Please Print)

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Candidate's Signature: _____

PERSONAL PROTECTIVE EQUIPMENT

Skill 8: Demonstrate donning Self Contained Breathing Apparatus (SCBA).

CONDITION: Given a Self-Contained Breathing Apparatus (SCBA) used by the responder.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
1. Crouch or kneel at SCBA.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Check SCBA cylinder pressure gauge for full level.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Open cylinder valve fully, verbalize pressure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Check regulator and cylinder gauge, gauges should read within 100 psi of each other.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Don backpack and fasten/tighten all straps.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Don face piece, adjust head harness.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Check seal, positive/negative pressure check.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Don hood over head.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Don helmet and tighten chin strap (helmet earflaps down).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Attach supply hose to regulator or face piece.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Turn on PASS device if needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Don gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Doff SCBA and place back in service	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

(Please Print)

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Candidate's Signature: _____

PERSONAL PROTECTIVE EQUIPMENT

Skill 9: Demonstrate doffing Self Contained Breathing Apparatus (SCBA).

CONDITION: Given a Self-Contained Breathing Apparatus (SCBA) used by the responder.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
1. Disconnect regulator from facepiece or low pressure hose from regulator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Doff SCBA and place on ground, close cylinder valve.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Relieve excess pressure from regulator, listen for low pressure alarm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Fully extend all straps on SCBA backpack.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Fully extend all straps on facepiece.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Inspect entire apparatus for cleanliness and damage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Place back in service.	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

(Please Print)

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Candidate's Signature: _____

PERSONAL PROTECTIVE EQUIPMENT

Skill 10: Assist/Don emergency response personnel in donning hooded chemical splash protective clothing and SCBA.

CONDITION: Given a hooded splash suit, boots, gloves, duct tape, helmet, SCBA, 2-member team: **one person donning** and **one assisting**.
(Each team member shall complete both job performance requirements)

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
SKILLS FOR PERSON DONNING SPLASH SUIT:	Y	N	Y	N
1. Don hooded splash suit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Don boots.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Don SCBA.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Don face piece.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Check face seal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Don inner gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Don outer gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Don head protection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SKILLS FOR PERSON ASSISTING IN DONNING OF SPLASH SUIT:				
1. Assist donning hooded splash 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 suit to boots.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Completely tape hood of PPE to SCBA face piece, do not cover field of vision on face piece.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Assist donning SCBA.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Tape front closure area and neck area.	<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. Connect low pressure hose to SCBA regulator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Tap all ends of tape (2" minimum).	<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"/>

Evaluator Comments: _____

Evaluator #1: _____
(Please Print)

Evaluator #2: _____
(Please Print)

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Candidate's Signature: _____

PERSONAL PROTECTIVE EQUIPMENT

Skill 11: Demonstrate Donning (and Doffing) Firefighter Turnout Gear/PPE.

CONDITION: Given boots, gloves, Nomex hood, bunker bottoms, bunker coat and helmet.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
1. Don bunker pants.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Don boots.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Don hood.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Don coat.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Don helmet.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Don gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Doff Turnout Gear/PPE	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

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Candidate's Signature: _____

PERFORMING DEFENSIVE CONTROL ACTIONS

Skill 12: Demonstrate stopping product release by closing remote valves.

CONDITION: Given a simulated spill from a tank, remote valve, and 2-firefighter team.

PPE: Minimum Firefighter Turnouts, SCBA.

*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
1. Confirm location of remote valve.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Approach valve location staying out of product.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Open or close valve.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Exit area maintaining team integrity.	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

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Candidate's Signature: _____

PERFORMING DEFENSIVE CONTROL ACTIONS

Skill 13: Demonstrate use of unmanned master stream (300 gpm or greater) for vapor suppression or dispersion.

CONDITION: Given a simulated spill, water supply, appliance, 100 ft. 2 1/2" hose, and 2-person team.
PPE: Minimum Firefighter Turnouts, SCBA.
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
1. Determine system is set up correctly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Signal for water.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Adjust stream of appliance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Flow until evaluator is satisfied.	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

(Please Print)

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Candidate's Signature: _____

PERFORMING DEFENSIVE CONTROL ACTIONS

Skill 14: Demonstrate the use of a hoseline to dilute or dispersion vapors on a hazardous materials spill.

CONDITION: Given a simulated spill, minimum 1 3/4" attack line, fire apparatus or water supply, 3-person team.
PPE: Minimum Firefighter Turnouts, SCBA.
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
1. Extend hoseline, open nozzle to bleed air.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Determine direction of water stream.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Use hose stream to direct product or vapors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Work upstream of product	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Two personnel to operate hoseline, one person to act as safety	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

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Evaluator #2: _____

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Candidate's Signature: _____

PERFORMING DEFENSIVE CONTROL ACTIONS

Skill 15: Demonstrate the proper application of fire fighting foam on a simulated hazardous materials spill of fire.

CONDITION: Given a simulated spill (36 sq. ft.), foam application system (apparatus or foam extinguisher).
PPE: Minimum Firefighter Turnouts, SCBA.
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
1. Approach spill upwind and upgrade.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Demonstrate proper application techniques.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Do not direct stream directly into pool.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. 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:

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

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

(Please Print)

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Candidate's Signature: _____

PERFORMING DEFENSIVE CONTROL ACTIONS

Skill 16: Demonstrate construction of a dike to divert a spill.

CONDITION: Given a simulated moving spill, sand or dirt, shovels, plastic, 3-firefighter team.
PPE: Minimum Firefighter Turnouts, SCBA.
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>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"/>

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"/>

Evaluator Comments: _____

Evaluator #1: _____
(Please Print)

Evaluator #2: _____
(Please Print)

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Candidate's Signature: _____

PERFORMING DEFENSIVE CONTROL ACTIONS

Skill 17: Demonstrate construction of a simple dam to retain a spill.

CONDITION: Given a simulated spill, sand or dirt, shovels, plastic, 3-firefighter team.

PPE: Minimum Firefighter Turnouts, SCBA.

*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>N</u>
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 dike and one 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:

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

Evaluator Comments: _____

Evaluator #1: _____

(Please Print)

Evaluator #2: _____

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Candidate's Signature: _____

PERFORMING DEFENSIVE CONTROL ACTIONS

Skill 18: 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, plastic, 3-firefighter team.
PPE: Minimum Firefighter Turnouts, SCBA.
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st. Att.</u>		<u>2nd Att.</u>	
	<u>Y</u>	<u>N</u>	<u>Y</u>	<u>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 build a dike and one standby as safety.	<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"/>

Evaluator Comments: _____

Evaluator #1: _____

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Evaluator #2: _____

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Candidate's Signature: _____

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