HAZARDOUS MATERIALS TECHNICIAN

PRACTICAL SKILLS CERTIFICATION EVALUATION PACKET

(NFPA Standard 1072, 2017 Edition)

Department of Public Safety
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May 2020

HAZARDOUS MATERIALS TECHNICIAN PRACTICAL SKILLS JOB PERFORMANCE REQUIREMENTS			
(NFPA 1072, 2017 Edition)			
2017 Skill Sheet #	**NFPA 1072 Section**	**Tasks**	**Initial Certification Skill Requirement: Mandatory: 4 Random: 3**
HMT 1	7.2.2, 7.2.3, 7.2.4, 7.2.5	Analyze the Incident	**Mandatory (HMT 1 or HMT 2)**
HMT 2	7.3.1, 7.3.2, 7.3.3, 7.3.4	Response Planning	**Mandatory (HMT 1 or HMT 2)**
HMT 3	7.4.1, 7.6.1	Perform Assigned ICS Duties	**Mandatory – Local Product**
HMT 4	7.2.3, 7.3.4, 7.6.1	Documenting and Terminating the Incident	**Mandatory – Local Product**
HMT 5	7.2.1, 7.2.2, 7.3.2	Detection and Monitoring	Type 1 Random
HMT 6	7.2.1, 7.2.2, 7.3.2	Sampling	Type 1 Random
HMT 7	7.4.2	Personal Protective Equipment Use	**Mandatory**
HMT08	7.4.3.4, 7.5.1	Liquid Product Transfer	Type 2 Random
HMT 09	7.1.7, 7.4.4.1	Mass Decontamination	Type 3 Random
HMT 10	7.3.3, 7.4.3.2, 7.4.4.2	Technical Decontamination	Type 3 Random
HMT 11	7.2.3, 7.2.4, 7.2.5, 7.3.4, 7.4.3.1, 7.4.3.2, 7.5.1	Perform Control Functions: 150 lbs. Pressure Vessel	Type 2 Random
HMT 12	7.2.3, 7.2.4, 7.2.5, 7.3.4, 7.4.3.1, 7.4.3.2, 7.5.1	Perform Control Functions: 1-Ton Pressure Vessel	Type 2 Random
HMT 13	7.2.3, 7.3.1, 7.3.4, 7.4.3.1, 7.4.3.2, 7.4.3.3, 7.5.1	Perform Control Functions: Non-Bulk Container	Type 2 Random
HMT 14	7.2.3, 7.3.1, 7.3.4, 7.4.3.1, 7.4.3.2, 7.5.1	Perform Control Functions: MC306/DOT406 Cargo Tank	Type 2 Random

Skill Sheet Packet Instruction

Purpose of the Skill Sheets

All skills listed in this packet are consistent with NFPA 1072: *Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications,* 2017 edition. The Alaska Fire Standards Council (AFSC) provides these skill sheets as the basis for Hazardous Materials Technician testing and certification.

Description & Use

For certification purposes, the final skill examination will consist of a series of mandatory skill stations and a selection of random skills from this packet. Hazardous Materials Awareness Practical Skills Sheets and Hazardous Materials Operations Practical Skill Sheets are prerequisite skills for Hazardous Materials Technician certification. Candidates are required to be certified at the Awareness and Operations level before certification at the Technician level is allowed.

1. These skills sheets are designed for use by the Training Officer/Training Program Manager and Hazardous Materials Technician candidate. Use of this packet throughout an accredited training program will assist in verifying candidate competency and completion of the Hazardous Materials Technician Training Record.
2. For eligibility to complete the final certification examination, a candidate must meet requisite certification requirements and demonstrate competency in all skills during training and satisfactorily compete all items on the Hazardous Materials Technician Training Record document.
3. This packet is designed to encompass the requisite skills for Hazardous Materials Technician and many of these skill sheets are used for final testing and certification. Training Officers/Training Program Managers and Hazardous Materials Technician course instructors should utilize this evaluation packet during a course to prepare candidates for the certification exam. These skills sheets should be given to every Hazardous Materials Technician candidate at the beginning of a training course and used throughout the course for ongoing evaluation by the instructor. For a candidate's final skills evaluation, she or he must successfully perform each skill while being evaluated on performance competency by an AFSC examination representative.
4. The final skills examination will consist of skills selected from this packet. Skills are selected from the mandatory and random skills categories. This packet contains a list of all mandatory and randomly selected skills that are used for the final examination.
5. Random skill stations will be selected using a test management system within the AFSC office. The random skill stations are selected prior to the test date. The Certifying Officer will notify candidates which skills they will be required to complete at the start of the practical skills portion on the date of the examination.
6. The completion of the Hazardous Materials Technician Training Record establishes a candidate's eligibility to test. This document must be fully completed and signed by the Training Officer/Training Program Manager or designee for each candidate before a candidate can begin the final skills examination. The Hazardous Materials Technician Training Record shall become a permanent part of the candidate's local training record, and this information shall be kept on file in accordance with local fire department accreditation procedures.

Grading Criteria

1. It is expected that all of the listed skill sheet elements will be taught and evaluated by the Hazardous Materials Technician instructor throughout a course. During the final skills exam, the candidate must be prepared to perform all the skills listed in this packet. There are no specific critical points designated within the practical skill sheets, and the Certifying Officer (CO) will require the candidate to repeat an individual practical skill station if *all* of the listed skill items on a selected sheet are not completed by the candidate.
2. This packet contains skill requirements that involve the demonstration of hazardous materials skills within "simulated" scenarios related to emergency activities. When applicable, skill sheets specifically describe when simulated hazmat conditions are permitted for certification testing.
3. There are critical performance items that must be followed for satisfactory performance. Examples of *unsatisfactory* performance can include:
    a. Exceeding limitations: time, safety, and equipment limitations
    b. Inadequate/insufficient personal protective equipment
    c. Lack of skill accuracy and task completion as defined on the skill evaluation sheet
    d. Poor judgment in skill performance (i.e.- wrong application of tool or equipment or safety violation)
    e. Failure to appropriately apply related knowledge or skill requirements
    f. Not competent in the specified task or skill steps
    g. Outcome of the specified task is in doubt (i.e.- incorrectly performed or did not accomplish skill evaluation criteria)
    h. Need for evaluator intervention (i.e.- imminent health or safety risk to candidate or others)
    i. Failure to adhere to basic safety principles or guidelines

Artificialities of Training and Testing

Training and testing for Hazardous Materials Technician can only approximate on-the-job activities of a firefighter. There are certain artificialities to training and testing that the candidate must be able to adapt to. Candidates must be aware that actual emergency situations cannot be completely duplicated during final examination scenarios. For the best possible outcome during final skills examination, Hazardous Materials Technician instructors must prepare the candidates to competently perform the skills listed in this packet throughout a training course.

Final Skills Evaluation

The AFSC designated Certifying Officer (CO) conducts the final evaluation and utilizes the practical skills evaluation sheets during the final examination process. Throughout the final examination, the CO has the overall test site authority and is required to perform his or her duties as outlined in the Certification Policy Manual.

For preparation of the final examination the designated CO must coordinate with the Training Officer/Training Program Manager, or designee, to ensure an adequate test site location is available. The Training Officer/Training Program Manager is responsible for preparation of all test site equipment/materials and arranging designated evaluators for the date of the practical examination. The CO must verify that all required elements are adequate for testing and will approve all designated evaluators. Designated evaluators shall receive training appropriate for the test site and are required to complete an Evaluator Code of Ethics Compliance agreement before testing begins.

Additional Notes:

1. During the final practical examination, it is expected that an appropriate uniform, or full personal protective equipment (PPE), shall be worn unless otherwise indicated within the skill evaluation sheet.
2. During some scenarios a candidate may be instructed to perform other firefighter/hazardous materials tasks not directly related to the specific skill sheet evaluation being tested. It is expected that the candidate shall perform all related skills correctly.
3. Some skills may include a time limit. An evaluator may use a digital or analog watch/stopwatch for final skills evaluation. Prior to the start of the practical examination, the CO must inspect and approve all timing devices used during final skills evaluations.
4. Some skills require that equipment or documentation be used within the final skills examination. Unless otherwise indicated, it is permissible for the candidate to prepare or assemble the required equipment or paperwork at any time, provided that this does not interfere with the core skill, task, or evolution.
5. Candidates must be prepared to complete skills under a variety of conditions. Training and skills practice are often done during optimum conditions, but candidates must be prepared to adapt to changing conditions that can occur in actual fire ground situations. The evaluator ultimately determines if the candidate has met the criteria specified on the skill(s) being evaluated.
6. For final examination, the performance of a skill, task, or evolution is not required to be done in the exact order of the steps (as outlined on the skill sheet), unless it is critical to a particular task. For example, a person must don turnout gear before donning an SCBA.
7. Some scenarios may involve skills that must be performed as a team. During final skills examinations evaluators and candidates must be cognizant that each team member is evaluated separately to ensure individual criteria is met. An individual candidate may be required to repeat a task if they do not satisfy the skill sheet requirements if working as a member of a team.
8. Some skills may require that a candidate verbalizes information about a particular task or procedure. In such cases, any question(s) from the evaluator to the candidate must be limited to those that satisfy the criteria listed on the skill sheet, and a question cannot exceed the scope the Hazardous Materials Technician requirements.

Hazardous Materials Technician Final Written and Practical Examinations

Following is a brief outline of the reference materials and documents that are used for a Hazardous Materials Technician final examination:

Hazardous Materials Technician Written Material References

a. NFPA 1072: *Standard for Hazardous Materials/Weapons ofMass Destruction Emergency Response Personnel Professional Qualifications*, 2017 edition.
b. Text
   - IFSTA, Hazardous Materials Technician, 2nd Edition
   - Jones & Bartlett, Managing the Incident, 4th Edition
c. Additional Reference
   - Current version of the DOT Emergency Response Guide (ERG) Book
   - Hazardous Materials Technician Practical Skills Evaluation Sheets (*this packet*)

Final Examination Steps

a. *Hazardous Materials Technician Training Record review (*this must be completed and signed off by the **Accreditation Manager/Training Officer or designee** prior to the date of the final examination and reviewed by the CO to ensure all elements are complete.*
b. Certifying Officer reviews and signs candidate Application for Certification
c. Candidate completes the written examination administered by the CO
d. Candidate completes the practical examination administered by the CO.
e. Certifying Officer reviews completed evaluator skill sheets and transfers information to the Practical Examination Reporting Form (PERF)
f. Written exam, PERF, and signed application are forwarded to AFSC.
g. AFSC Hazardous Materials Technician certificate is issued upon successful completion of the written and practical exam (*within approximately 30 days of test date*)

*Note: *The candidate's completed Training Record and signed Final Examination skill sheets shall be placed in the candidate's local training file in accordance with fire department accreditation procedures*

Acknowledgements

The Alaska Fire Standards Council would like to acknowledge the assistance of the International Fire Service Accreditation Congress and its members who have provided reference and support and the Alaska Responders that assisted with the development and review throughout the revision process.

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT 01**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.2.2, 7.2.3, 7.2.4, 7.2.5	**GENERAL SKILL:** **Analyze the Incident**

TASK: Given a scenario involving hazardous materials, the candidate shall collect and interpret hazard and response information at a hazardous materials/WMD incident.

PERFORMANCE OUTCOME: The candidate shall identify, collect and communicate response information; describe potential hazards, predict likely behavior of the chemicals and container, and outcomes associated with that behavior and surrounding conditions identified in the scenario provided.

EQUIPMENT: Applicable ICS forms, written and electronic reference material (i.e. ERG, NIOSH Pocket Guide, CHRIS Manual, WISER, CAMEO) and the Scenario which may include maps, incident description, safety data sheets and/or shipping documents.

CONDITIONS: Given a hazardous materials scenario and the Alaska HazMat Incident Data Practical Worksheet packet, the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
1.	**Collect and Interpret Hazard and Response Information (7.2.2)**						
	a) Identify signs and symptoms of exposure for the chemicals involved	☐	☐	☐	☐	☐	☐
	b) Identify target organ effects for the chemicals involved	☐	☐	☐	☐	☐	☐
	c) Proper PPE (Level and Material)	☐	☐	☐	☐	☐	☐
2.	**Assess Container Condition (7.2.3)**						
	a) Performs a visual damage assessment	☐	☐	☐	☐	☐	☐
	b) Identifies the type of damage	☐	☐	☐	☐	☐	☐
	c) Identifies stress(es) on the container	☐	☐	☐	☐	☐	☐
3.	**Predict Behavior (7.2.4)**						
	a) Identifies chemical and physical properties of products	☐	☐	☐	☐	☐	☐
	b) Predict the likely behavior of materials and their containers when multiple materials are involved	☐	☐	☐	☐	☐	☐
	c) Identify reactivity issues associated with mixing of the hazardous materials	☐	☐	☐	☐	☐	☐
	d) Documents the predicted behavior	☐	☐	☐	☐	☐	☐
4.	**Estimating Outcome (7.2.5)**						
	a) Estimate the concentrations of the materials within the endangered area	☐	☐	☐	☐	☐	☐
	b) Identify physical, health, and safety hazards within the endangered area	☐	☐	☐	☐	☐	☐
	c) Estimate the potential outcome of the incident	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	

Comments:

Certifying Officer Name *Date*

Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-02**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.3.1, 7.3.2, 7.3.3, 7.3.4	**GENERAL SKILL:** **Response Planning**

TASK: Given a scenario involving hazardous materials, the candidate shall collect and interpret hazard and response information at a hazardous materials/WMD incident.

PERFORMANCE OUTCOME: The candidate shall develop response objectives, select the correct PPE, determine the correct decontamination method, and develop an action plan for the scenario provided.

EQUIPMENT: Applicable ICS forms, written and electronic reference material (i.e. ERG, NIOSH Pocket Guide, CHRIS Manual, WISER, CAMEO) and the Scenario which may include maps, incident description, safety data sheets and/or shipping documents.

CONDITIONS: Given a hazardous materials scenario and the Alaska HazMat Incident Data Practical Worksheet packet, the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
Response Objectives and Options (7.3.1)							
1.	Develop response objectives	☐	☐	☐	☐	☐	☐
2.	Identifies action options for each response objective	☐	☐	☐	☐	☐	☐
Personal Protective Equipment (PPE) Selection (7.3.2)							
3.	Determines the PPE ensemble required for the scenario	☐	☐	☐	☐	☐	☐
4.	Determines the appropriate chemical protective clothing material for the scenario	☐	☐	☐	☐	☐	☐
5.	Determines the breakthrough time for the selected PPE	☐	☐	☐	☐	☐	☐
Selects the Decontamination Method (7.3.3)							
6.	Determines the type of decontamination that is appropriate for the scenario (emergency, technical, or mass)	☐	☐	☐	☐	☐	☐
7.	Determines physical properties of the decontamination process (wet / dry)	☐	☐	☐	☐	☐	☐
Action Plan Development (7.3.4)							
8.	Prepare an Incident Action Plan	☐	☐	☐	☐	☐	☐
9.	Identify site safety and control components	☐	☐	☐	☐	☐	☐
10.	Develop a site safety briefing	☐	☐	☐	☐	☐	☐
11.	Identify pre-entry tasks	☐	☐	☐	☐	☐	☐
12.	Identify the need for preserving and collecting legal evidence	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	

Comments:

_____ _____
Certifying Officer Name *Date*

_____
Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-03**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.4.1, 7.6.1	**GENERAL SKILL:** **Perform Assigned ICS Duties**

TASK: Given a position within the incident command system perform the duties and responsibilities of a hazardous materials branch or group function.

PERFORMANCE OUTCOME: The candidate shall complete the assigned function within command structure to favorably change the outcome of an incident.

EQUIPMENT: PPE, proper forms, and other equipment necessary to perform the functions assigned.

CONDITIONS: Given a scenario the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
1.	Works within the established ICS system	☐	☐	☐	☐	☐	☐
2.	Performs hazardous materials related ICS assigned duties (i.e. Decontamination Leader, Entry Team Leader, Damage Assessment Leader, Recon/Survey Leader)	☐	☐	☐	☐	☐	☐
3.	Ensures that all personnel are in the correct PPE, ensures that	☐	☐	☐	☐	☐	☐
4.	Ensures that all personnel are briefed on the tasks to be preformed	☐	☐	☐	☐	☐	☐
5.	Monitors operations for effectiveness	☐	☐	☐	☐	☐	☐
6.	Evaluates and reports progress to supervisor	☐	☐	☐	☐	☐	☐
7.	Performs and documents a debrief with personnel	☐	☐	☐	☐	☐	☐
8.	Documents the debrief to include safety, equipment, personnel, or legal situations that need immediate attention	☐	☐	☐	☐	☐	☐
9.	Assesses the team's need for critical incident stress debriefing	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	

Comments:

THE CANDIDATE SHALL COMPLETE THE SKILL REQUIREMENT DURING THE COURSE USING SPECIFIC POLICIES AND PROCEDURES DEMONSTRATED THROUGH PRACTICAL'S AND DOCUMENTATION - REQUIRES LEAD INSTRUCTOR SIGNATURE BELOW

I verify that the above information is true and complete and attest that the candidate has met and performed all listed task steps as indicated.

_____ _____ _____
Lead Instructor Name ***Signature*** *Date*

_____ _____
Certifying Officer Name *Date*

_____
Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT 04**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.2.3, 7.3.4, 7.6.1	**GENERAL SKILL:** **Documenting and Terminating the Incident**

TASK: The candidate will terminate a hazardous materials/WMD incident.

PERFORMANCE OUTCOME: The candidate shall communicate operational observations, complete, forward, and file required reports, records, and supporting documentation.

EQUIPMENT: Incident Action Plan, Site Safety & Control Plan, debriefing and incident critique records, PPE/Physical evaluation record, and an ICS 214 form

CONDITIONS: Given a scenario the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
THE CANDIDATE SHALL COMPLETE THE FOLLOWING PRODUCT BASED SKILL REQUIREMENT DURING THE TRAINING COURSE AND THE FINAL DOCUMENTS SHALL BE PRESENTED TO AN EVALUATOR OR CERTIFYING OFFICER AS A PACKET FOR REVIEW.							
1.	Develop an Incident Action Plan	☐	☐	☐	☐	☐	☐
2.	Complete and document a container damage assessment	☐	☐	☐	☐	☐	☐
3.	Develop a Site Safety and Control Plan (ICS 208HM)	☐	☐	☐	☐	☐	☐
4.	Conduct an incident debriefing and completes applicable record(s)	☐	☐	☐	☐	☐	☐
5.	Conduct an incident critique and applicable record(s)	☐	☐	☐	☐	☐	☐
6.	Complete a PPE inspection record	☐	☐	☐	☐	☐	☐
7.	Complete a physical evaluation record (Pre & Post Entry)	☐	☐	☐	☐	☐	☐
8.	Complete a personnel exposure record	☐	☐	☐	☐	☐	☐
9.	Complete an Incident Activity Log (ICS 214)	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	

Comments:

THE CANDIDATE SHALL COMPLETE THE SKILL REQUIREMENT DURING THE COURSE USING SPECIFIC POLICIES AND PROCEDURES DEMONSTRATED THROUGH PRACTICAL'S AND DOCUMENTATION - REQUIRES LEAD INSTRUCTOR SIGNATURE BELOW

I verify that the above information is true and complete and attest that the candidate has met and performed all listed task steps as indicated.

Lead Instructor Name	***Signature***	*Date*

Certifying Officer Name	*Date*

Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072-2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-05a**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.2.1, 7.2.2, 7.3.2	**GENERAL SKILL:** **Detection and Monitoring**

TASK: Given PPE, three hazardous materials (one solid, one liquid, and one gas), and a package containing simulated or actual radiological materials, various monitoring devices, test strips and reagents, you will select the appropriate monitoring equipment, state aloud its capabilities and limiting factors. The candidate shall also demonstrate the proper techniques to use radiological monitoring equipment to determine if a radiological material package has been breached.

PERFORMANCE OUTCOME: The candidate shall collect, interpret and communicate hazard and response information and completing required reports and supporting documentation.

EQUIPMENT: PPE, Samples of substances unknown to the student, actual or simulated radiological material, PPE as needed, carbon monoxide meter, colorimetric tubes, combustible gas indicator, oxygen meter, pH indicator strips or pH meter

CONDITIONS: Given standard operating procedures or Incident Action Plan, and a site safety and control plan of the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
1.	Selects and uses proper PPE	☐	☐	☐	☐	☐	☐
2.	**USES ELECTROCHEMICAL CELL METER (toxic gas sensor)**						
	a. Selects proper meter from monitoring equipment	☐	☐	☐	☐	☐	☐
	b. States aloud the capabilities and limiting factors	☐	☐	☐	☐	☐	☐
	c. Operates equipment properly	☐	☐	☐	☐	☐	☐
	d. Accurately determines and records results	☐	☐	☐	☐	☐	☐
3.	**USES COLORIMETRIC INSTRUMENT (tube, chip, papers, strips, reagents)**						
	a. Selects proper meter from monitoring equipment	☐	☐	☐	☐	☐	☐
	b. States aloud the capabilities and limiting factors	☐	☐	☐	☐	☐	☐
	c. Operates equipment properly	☐	☐	☐	☐	☐	☐
	d. Determines and records results	☐	☐	☐	☐	☐	☐
4.	**USES COMBUSTIBLE GAS INDICATOR**						
	a. Selects proper meter from monitoring equipment	☐	☐	☐	☐	☐	☐
	b. States aloud the capabilities and limiting factors	☐	☐	☐	☐	☐	☐
	c. Operates equipment properly	☐	☐	☐	☐	☐	☐
	d. Determines and records results	☐	☐	☐	☐	☐	☐
5.	**USES NONCONTACT THERMAL DETECTION DEVICE**						
	a. Selects proper equipment from monitoring equipment	☐	☐	☐	☐	☐	☐
	b. States aloud the capabilities and limiting factors	☐	☐	☐	☐	☐	☐
	c. Operates equipment properly	☐	☐	☐	☐	☐	☐
	d. Determines and records results	☐	☐	☐	☐	☐	☐
6.	**USES OXYGEN METER**						
	a. Selects proper meter from monitoring equipment	☐	☐	☐	☐	☐	☐
	b. States aloud the capabilities and limiting factors	☐	☐	☐	☐	☐	☐
	c. Operates equipment properly	☐	☐	☐	☐	☐	☐
	d. Determines and records results	☐	☐	☐	☐	☐	☐

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7.	**USES PHOTOIONIZATION DETECTOR (PID)**						
	a. Selects proper meter from monitoring equipment	☐	☐	☐	☐	☐	☐
	b. States aloud the capabilities and limiting factors	☐	☐	☐	☐	☐	☐
	c. Operates equipment properly	☐	☐	☐	☐	☐	☐
	d. Determines and records results	☐	☐	☐	☐	☐	☐
8.	**PERFORMS RADIOLOGICAL MONITORING**						
	a. Selects appropriate equipment	☐	☐	☐	☐	☐	☐
	b. Determine the radiation dose rate from radioactive material labels	☐	☐	☐	☐	☐	☐
	c. Correctly operates monitor to survey the scene	☐	☐	☐	☐	☐	☐
	d. Records results correctly	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	
Comments:			

Certifying Officer Name *Date*

Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072-2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-06**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.2.1, 7.2.2, 7.3.2	**GENERAL SKILL:** **Sampling**

TASK: Given PPE, three hazardous materials (one solid, one liquid, and one gas) demonstrate the proper techniques to collect a sample of each material, and demonstrate the proper techniques to identify each sample.

PERFORMANCE OUTCOME: The candidate shall collect samples (solid, liquid, gas) and complete required reports and supporting documentation.

EQUIPMENT: PPE, Samples of three substances unknown to the student, and sampling equipment.

CONDITIONS: Given standard operating procedures or Incident Action Plan, and a site safety and control plan of the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
1.	Selects proper PPE	☐	☐	☐	☐	☐	☐
2.	**PERFORMS LIQUID SAMPLING**						
	a. Selects appropriate equipment	☐	☐	☐	☐	☐	☐
	b. Uses proper technique	☐	☐	☐	☐	☐	☐
	c. Classify or identify by hazard	☐	☐	☐	☐	☐	☐
	d. Quantify pH	☐	☐	☐	☐	☐	☐
	e. Determines and records results	☐	☐	☐	☐	☐	☐
3.	**PERFORMS GAS SAMPLING**						
	a. Selects appropriate equipment	☐	☐	☐	☐	☐	☐
	b. Uses proper technique	☐	☐	☐	☐	☐	☐
	c. Classify or identify by hazard	☐	☐	☐	☐	☐	☐
4.	**PERFORMS SOLID SAMPLING**						
	a. Selects appropriate equipment	☐	☐	☐	☐	☐	☐
	b. Uses proper technique	☐	☐	☐	☐	☐	☐
	c. Classify or identify by hazard	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	

Comments:

Certifying Officer Name *Date*

Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-07**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.4.2	**GENERAL SKILL:** **Personal Protective Equipment Use**

TASK: The candidate will don, work in, and doff PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident.

PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to inspect, don, work in, and doff PPE while going through technical decontamination and complete required reports and supporting documents for the use of PPE.

EQUIPMENT: Level A or Level B personal protective equipment

CONDITIONS: Given a scenario the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
1.	Inspect chemical protective clothing and SCBA prior to donning	☐	☐	☐	☐	☐	☐
2.	Correctly don chemical protective clothing	☐	☐	☐	☐	☐	☐
3.	Correctly don respiratory protection	☐	☐	☐	☐	☐	☐
4.	Utilizes inner gloves	☐	☐	☐	☐	☐	☐
5.	Doffs chemical protective clothing properly	☐	☐	☐	☐	☐	☐
6.	Completes doffing procedures in accordance with local policy and procedure	☐	☐	☐	☐	☐	☐
7.	Complete required reports and supporting documents for the use of PPE	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	

Comments:

Certifying Officer Name _____ *Date*

Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-08**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.3.2, 7.3.4, 7.4.3.4, 7.5.1	**GENERAL SKILL:** **Liquid Product Transfer**

TASK: Selecting and using PPE; identifying a compatible recovery container and transfer equipment; monitoring for hazards; grounding and bonding containers; transferring liquid product from a leaking container to a recovery container; suppressing vapors; decontaminating tools and equipment; inspecting and maintaining tools and equipment; and completing reports and supporting documentation for product control operations.

PERFORMANCE OUTCOME: Given PPE, SCBA, and a controlled leak in an atmospheric pressure container and working as a member of a team (no more than 3 students), you will select appropriate equipment/materials and demonstrate a method of transferring product from the damaged container to a recovery container. After the operation, the team may be required to conduct a short debriefing to include the examination evaluator

EQUIPMENT: Level A, B, or C chemical protective clothing; metering devices; pump (to move product) (hand pump, pneumatic pump, double diaphragm pump, etc.); bonding rods; grounding cables; recovery drum

CONDITIONS: Given a scenario the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
1.	Select and use PPE	☐	☐	☐	☐	☐	☐
2.	Develops a plan of action to transfer the product	☐	☐	☐	☐	☐	☐
3.	Identify a compatible recovery container and transfer equipment	☐	☐	☐	☐	☐	☐
4.	Monitor for hazards	☐	☐	☐	☐	☐	☐
5.	Ground (as available) and bond containers	☐	☐	☐	☐	☐	☐
6.	Safely transfers product from damaged container to recovery container	☐	☐	☐	☐	☐	☐
7.	Suppress vapors as necessary	☐	☐	☐	☐	☐	☐
8.	Evaluates the effectiveness of the transfer operations	☐	☐	☐	☐	☐	☐
9.	Inspects tools	☐	☐	☐	☐	☐	☐
10.	Complete reports and supporting documentation for product control operations	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	

Comments:

_____ _____

Certifying Officer Name *Date*

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Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-09a**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.1.7, 7.4.4.1	**GENERAL SKILL:** **Mass Decontamination**

TASK: The candidate will perform mass decontamination for ambulatory and non-ambulatory victims at a hazardous materials/WMD incident.

PERFORMANCE OUTCOME: The candidate working as a member of a team shall demonstrate the ability to select a mass decontamination procedure, implement operations, and evaluate effectiveness, and complete reporting and documentation requirements.

EQUIPMENT: Personal protective equipment, pump apparatus, various nozzles, hand line, Water supply, decontamination supplies and equipment, personnel to act as victims, local decontamination plan, standard operating procedures/guidelines.

CONDITIONS: Given a scenario the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
ESTABLISHES MASS DECONTAMINATION CORRIDOR							
1.	Obtains local decontamination plan	☐	☐	☐	☐	☐	☐
2.	Selects correct site (uphill, upwind)	☐	☐	☐	☐	☐	☐
3.	Select a mass decontamination procedure to minimize the hazard	☐	☐	☐	☐	☐	☐
4.	Set up and implement mass decontamination operations for ambulatory and nonambulatory victims	☐	☐	☐	☐	☐	☐
5.	Water pressures are maintained between 30 – 50 psi for master stream devices	☐	☐	☐	☐	☐	☐
6.	Contains/prevents the spread of contamination	☐	☐	☐	☐	☐	☐
7.	Select and use suitable PPE	☐	☐	☐	☐	☐	☐
PERFORMS MASS DECONTAMINATION ON AN AMBULATORY VICTIM							
8.	Set up the appropriate type of mass decontamination system based on the nature of the contaminant and the type of apparatus, equipment, and/or system available	☐	☐	☐	☐	☐	☐
9.	Direct victims out of the hazard zone and into a suitable location.	☐	☐	☐	☐	☐	☐
10.	Instruct victims to remove all contaminated clothing and walk through the decontamination process.	☐	☐	☐	☐	☐	☐
11.	Flush the contaminated victims with water.	☐	☐	☐	☐	☐	☐
12.	Direct the contaminated victims to a redress/medical evaluation area.	☐	☐	☐	☐	☐	☐
13.	Evaluate the effectiveness of the mass decontamination process	☐	☐	☐	☐	☐	☐
PERFORM MASS DECONTAMINATION ON A NON-AMBULATORY VICTIM							
14.	Set up the appropriate type of mass decontamination system based on the nature of the contaminant, type of apparatus, equipment, and/or decontamination system available.	☐	☐	☐	☐	☐	☐
15.	Remove the appropriate amount of the victim's clothing, not leaving any clothing underneath the victim	☐	☐	☐	☐	☐	☐
16.	Flush the contaminated victims with water, making sure to rinse well under and around the straps that may be holding the victims to a backboard or other extrication device.	☐	☐	☐	☐	☐	☐
17.	Move the victims through the decontamination corridor and into the triage area for medical evaluation.	☐	☐	☐	☐	☐	☐
18.	Evaluate the effectiveness of the mass decontamination process	☐	☐	☐	☐	☐	☐
COMPLETION OF THE MASS DECONTAMINATION PROCESS							
19.	Contains decontamination solutions and runoff water	☐	☐	☐	☐	☐	☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-09b**

20.	Precautions taken to eliminate cross and secondary contamination	☐	☐	☐	☐	☐	☐
21.	Hazards are avoided or minimized	☐	☐	☐	☐	☐	☐
22.	Complete reporting and documentation requirements	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	
Comments:			

Certifying Officer Name *Date*

Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-10**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.3.3, 7.4.3.2, 7.4.4.2	**GENERAL SKILL:** **Technical Decontamination**

TASK: The candidate will establish and implement technical decontamination in support of entry operations and for victims at a hazardous materials/WMD incident.

PERFORMANCE OUTCOME: The candidate, working as a member of a team and given local decontamination plan and decontamination equipment, shall demonstrate how to perform technical decontamination operations involving responders, ambulatory victims, and non-ambulatory victims specified in the planned response.

EQUIPMENT: Water supply, decontamination supplies and equipment, personnel to act as victims, local decontamination plan, local standard operating procedures/guidelines.

CONDITIONS: Given a scenario the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
1.	Determines type of decontamination (wet or dry)	☐	☐	☐	☐	☐	☐
2.	Selects and dons appropriate PPE	☐	☐	☐	☐	☐	☐
3.	Establishes communication with entry team	☐	☐	☐	☐	☐	☐
4.	Establishes communication with victim	☐	☐	☐	☐	☐	☐
5.	Set up and implement technical decontamination operations	☐	☐	☐	☐	☐	☐
6.	Entry and exit points clearly marked	☐	☐	☐	☐	☐	☐
7.	Uses proper decontamination methods	☐	☐	☐	☐	☐	☐
8.	Contains/prevents spread of contamination	☐	☐	☐	☐	☐	☐
9.	Containers available to contain contaminated tools, equipment, and clothing	☐	☐	☐	☐	☐	☐
10.	Precautions taken to eliminate cross and secondary contamination	☐	☐	☐	☐	☐	☐
11.	Determines effectiveness of decontamination process	☐	☐	☐	☐	☐	☐
12.	Complete required reports and supporting documentation for technical decontamination operations.	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	

Comments:

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Certifying Officer Name ***Date***

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Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-11**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.2.3, 7.2.4, 7.2.5, 7.3.2, 7.3.4, 7.4.3.1, 7.4.3.2, 7.5.1	**GENERAL SKILL:**	**Perform Control Functions: 150 lbs. Pressure Vessel**

TASK: The candidate shall select the appropriate material or equipment and demonstrate a method(s) to contain leaksfrom the following locations: (a) fusible plug; (b) fusible plug threads; (c) side wall of cylinder; (d) valve blowout; (e) valve gland; (f) valve inlet threads; (g) valve seat; and (h) valve stem assembly blowout.

PERFORMANCE OUTCOME: Given appropriate PPE and SCBA, a simulated leak in a pressure vessel, and working as a member of a team of 3, you will select appropriate equipment/materials and demonstrate a method to safely contain the leak.

EQUIPMENT: PPE, plugging and patching equipment/materials, simulated leak in a 150 lbs. pressure vessel prop.

CONDITIONS: Given a scenario the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
ANALYZE THE INCIDENT							
1.	Approaches the simulator safely	☐	☐	☐	☐	☐	☐
2.	Assesses the damage to the container	☐	☐	☐	☐	☐	☐
3.	Identifies source and type of leak	☐	☐	☐	☐	☐	☐
4.	Determines concentration of materials within the endangered area	☐	☐	☐	☐	☐	☐
5.	Identifies the physical, health, & safety hazards within the endangered area	☐	☐	☐	☐	☐	☐
6.	Identifies the areas of potential harm in the endangered area	☐	☐	☐	☐	☐	☐
7.	Estimates the potential outcomes of the hazardous materials incident	☐	☐	☐	☐	☐	☐
8.	Communicates the potential outcomes of the hazardous materials incident	☐	☐	☐	☐	☐	☐
RESPONSE PLANNING							
9.	Develops a plan of action to control the leak	☐	☐	☐	☐	☐	☐
10.	Selects appropriate equipment/materials to contain the leak	☐	☐	☐	☐	☐	☐
ACTION PLAN IMPLEMENTATION							
11.	Selects and wears appropriate level of PPE	☐	☐	☐	☐	☐	☐
12.	Works as a member of the team	☐	☐	☐	☐	☐	☐
13.	Handles equipment and product safely	☐	☐	☐	☐	☐	☐
14.	Properly contains the leaking container	☐	☐	☐	☐	☐	☐
15.	Inspects and maintains tools and equipment	☐	☐	☐	☐	☐	☐
EVALUATION AND REPORTING PROGRESS							
16.	Completes required and supporting documentation for product control operations	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	

Comments:

Certifying Officer Name *Date*

Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-12**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.2.3, 7.2.4, 7.2.5, 7.3.2 7.3.4, 7.4.3.1, 7.4.3.2, 7.5.1	**GENERAL SKILL:**	**Perform Control Functions: 1-Ton Pressure Vessel**

TASK: The candidate shall select the appropriate material or equipment and demonstrate a method(s) to contain leaksfrom the following locations: (a) fusible plug; (b) fusible plug threads; (c) side wall of cylinder; (d) valve blowout; (e) valve gland; (f) valve inlet threads; (g) valve seat; and (h) valve stem assembly blowout.

PERFORMANCE OUTCOME: Given appropriate PPE and SCBA, a simulated leak in a pressure vessel, and working as a member of a team of 3, you will select appropriate equipment/materials and demonstrate a method to safely contain the leak.

EQUIPMENT: PPE, plugging and patching equipment/materials, simulated leak in a 1-Ton pressure vessel prop.

CONDITIONS: Given a scenario the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
ANALYZE THE INCIDENT							
1.	Approaches the simulator safely	☐	☐	☐	☐	☐	☐
2.	Assesses the damage to the container	☐	☐	☐	☐	☐	☐
3.	Identifies source and type of leak	☐	☐	☐	☐	☐	☐
4.	Determines concentration of materials within the endangered area	☐	☐	☐	☐	☐	☐
5.	Identifies the physical, health, & safety hazards within the endangered area	☐	☐	☐	☐	☐	☐
6.	Identifies the areas of potential harm in the endangered area	☐	☐	☐	☐	☐	☐
7.	Estimates the potential outcomes of the hazardous materials incident	☐	☐	☐	☐	☐	☐
8.	Communicates the potential outcomes of the hazardous materials incident	☐	☐	☐	☐	☐	☐
RESPONSE PLANNING							
9.	Develops a plan of action to control the leak	☐	☐	☐	☐	☐	☐
10.	Selects appropriate equipment/materials to contain the leak	☐	☐	☐	☐	☐	☐
ACTION PLAN IMPLEMENTATION							
11.	Selects and wears appropriate level of PPE	☐	☐	☐	☐	☐	☐
12.	Works as a member of the team	☐	☐	☐	☐	☐	☐
13.	Handles equipment and product safely	☐	☐	☐	☐	☐	☐
14.	Properly contains the leaking container	☐	☐	☐	☐	☐	☐
15.	Inspects and maintains tools and equipment	☐	☐	☐	☐	☐	☐
EVALUATION AND REPORTING PROGRESS							
16.	Completes required and supporting documentation for product control operations	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	

Comments:

Certifying Officer Name *Date*

Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-13a**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.2.3, 7.3.1, 7.3.2, 7.3.4, 7.4.3.1, 7.4.3.2, 7.4.3.3, 7.5.1	**GENERAL SKILL:**	**Perform Control Functions: Contain Non-Bulk Container**

TASK: Given PPE, SCBA, equipment/materials for containing leaks, and a simulated leak on known material in a 55-gallon drum and working as a member of a team, select appropriate equipment/materials, develop a plan of action for controlling the leak, and demonstrate containing a bung leak, chime leak, forklift puncture, or nail puncture.

PERFORMANCE OUTCOME: Working as a member of a team (3 members), shall demonstrate the ability to contain four commontypes of leaks associate with 55-gallon drums and be able to perform three methods of drum over packing.

EQUIPMENT: PPE, SCBA, chemical protective clothing, equipment/materials for containing leaks, 55-gallon drum props

CONDITIONS: Given a scenario the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
Contain a 55-Gallon Drum Bung Leak (Drum lying on side)							
1.	Evaluate the damage and identifies source and type of leak	☐	☐	☐	☐	☐	☐
2.	Develops for the response objectives	☐	☐	☐	☐	☐	☐
3.	Develops a plan of action to control the leak based on the predicted behavior	☐	☐	☐	☐	☐	☐
4.	Selects appropriate equipment/materials to contain leak	☐	☐	☐	☐	☐	☐
5.	Contains leak by tightening bung or plugging with wooden/rubber plug	☐	☐	☐	☐	☐	☐
6.	Moves drum to upright position after controlling leak	☐	☐	☐	☐	☐	☐
7.	Wears appropriate PPE	☐	☐	☐	☐	☐	☐
8.	Safely handles equipment and product	☐	☐	☐	☐	☐	☐
9.	Inspects and maintains tools and equipment	☐	☐	☐	☐	☐	☐
10.	Completes required and supporting documentation for product control	☐	☐	☐	☐	☐	☐
11.	Works as a member of the team	☐	☐	☐	☐	☐	☐
Contain a 55-Gallon Drum Chime Leak (Drum lying on side with leak at bottom)							
12.	Evaluate the damage and identifies source and type of leak	☐	☐	☐	☐	☐	☐
13.	Develops for the response objectives	☐	☐	☐	☐	☐	☐
14.	Develops a plan of action to control the leak	☐	☐	☐	☐	☐	☐
15.	Selects appropriate equipment/materials to contain leak	☐	☐	☐	☐	☐	☐
16.	Contains leak by use of putty, leak wool, or other appropriate method	☐	☐	☐	☐	☐	☐
17.	Positions drum with leak in vapor space	☐	☐	☐	☐	☐	☐
18.	Wears appropriate PPE	☐	☐	☐	☐	☐	☐
19.	Safely handles equipment and product	☐	☐	☐	☐	☐	☐
20.	Inspects and maintains tools and equipment	☐	☐	☐	☐	☐	☐
21.	Completes required and supporting documentation for product control	☐	☐	☐	☐	☐	☐
22.	Works as a member of the team	☐	☐	☐	☐	☐	☐
Contain a 55-gallon drum nail puncture leak (Drum in upright position)							
23.	Evaluate the damage and identifies source and type of leak	☐	☐	☐	☐	☐	☐
24.	Develops for the response objectives	☐	☐	☐	☐	☐	☐
25.	Develops a plan of action to control the leak	☐	☐	☐	☐	☐	☐
26.	Selects appropriate equipment/materials to contain leak	☐	☐	☐	☐	☐	☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-13b**

27.	Wears appropriate PPE	☐	☐	☐	☐	☐	☐
28.	Contains leak successfully	☐	☐	☐	☐	☐	☐
29.	Maintains correct position of drum	☐	☐	☐	☐	☐	☐
30.	Safely handles equipment and product	☐	☐	☐	☐	☐	☐
31.	Inspects and maintains tools and equipment	☐	☐	☐	☐	☐	☐
32.	Completes required and supporting documentation for product control	☐	☐	☐	☐	☐	☐
33.	Works as a member of the team	☐	☐	☐	☐	☐	☐
Contain a 55-gallon forklift puncture leak (Drum in upright position)							
34.	Evaluate the damage and identifies source and type of leak	☐	☐	☐	☐	☐	☐
35.	Develops for the response objectives	☐	☐	☐	☐	☐	☐
36.	Develops a plan of action to control the leak	☐	☐	☐	☐	☐	☐
37.	Selects appropriate equipment/materials to contain leak	☐	☐	☐	☐	☐	☐
38.	Wears appropriate PPE	☐	☐	☐	☐	☐	☐
39.	Contains leak successfully	☐	☐	☐	☐	☐	☐
40.	Safely handles equipment and product	☐	☐	☐	☐	☐	☐
41.	Inspects and maintains tools and equipment	☐	☐	☐	☐	☐	☐
42.	Completes required and supporting documentation for product control	☐	☐	☐	☐	☐	☐
43.	Works as a member of the team	☐	☐	☐	☐	☐	☐
Over pack leaking 55-gallon drum							
44.	Slide-in	☐	☐	☐	☐	☐	☐
45.	Rolling slide in	☐	☐	☐	☐	☐	☐
46.	Slip-over	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	
Comments:			

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Certifying Officer Name *Date*

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Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

NFPA 1072- 2017 Ed. **PRACTICAL SKILL REQUIREMENTS** **HMT-14**

Candidate:	**Date:**

STANDARD: NFPA 1072: 7.2.2, 7.2.3, 7.3.1, 7.3.2, 7.3.4, 7.4.3.1, 7.4.3.2, 7.5.1	**GENERAL SKILL:** **Perform Control Functions: Contain MC-306/DOT-406 Cargo Tank**

TASK: Demonstrate the ability to contain a release in a MC-306/DOT-406 cargo tank simulator with a simulated product spilling out of the dome lid, piping, or shell, the team will develop a plan of action to control the leak and safely stop the loss of product.

PERFORMANCE OUTCOME: The candidate working as a member of a three-person team, shall demonstrate the ability to control liquid leaks on a MC-306/DOT-406 properly.

EQUIPMENT: PPE, SCBA, cargo tank simulator with water as product and containment equipment to include a dome lid clamp.

CONDITIONS: Given a scenario the candidate shall:

No.	TASK STEPS	TEST		RETEST 1		RETEST 2	
		P	F	P	F	P	F
1.	Develops a plan of action to control the leak	☐	☐	☐	☐	☐	☐
2.	Wears appropriate PPE	☐	☐	☐	☐	☐	☐
3.	Selects appropriate equipment to contain the leak	☐	☐	☐	☐	☐	☐
4.	Installs containment equipment successfully	☐	☐	☐	☐	☐	☐
5.	Safely handles equipment and product	☐	☐	☐	☐	☐	☐
6.	Evaluates the effectiveness of control functions	☐	☐	☐	☐	☐	☐
7.	Inspects and maintains tools and equipment	☐	☐	☐	☐	☐	☐
8.	Completes required and supporting documentation	☐	☐	☐	☐	☐	☐
9.	Works as a member of the team	☐	☐	☐	☐	☐	☐

Evaluator:		***Retest Evaluator 1:***	
		Retest Evaluator 2:	

Comments:

_____ _____

Certifying Officer Name *Date*

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Certifying Officer Signature

Overall Skill Sheet Result:

Pass (P): ☐ **Fail (F):** ☐

PRACTICAL SKILLS CORRELATION MAP

HAZARDOUS MATERIALS TECHNICIAN PRACTICAL SKILLS JOB PERFORMANCE REQUIREMENTS

(NFPA 1072, 2017 Edition)

2017 Skill Sheet #	NFPA 1072 Section	Tasks	Initial Certification Skill Requirement: Mandatory: 4 Random: 3
Mandatory Practical Skills: ***Final Examination Requirement***			
HMT 01	7.2.2, 7.2.3, 7.2.4, 7.2.5	Analyze the Incident	**Mandatory (HMT 1 or HMT 2)**
HMT 02	7.3.1, 7.3.2, 7.3.3, 7.3.4	Response Planning	**Mandatory (HMT 1 or HMT 2)**
HMT 03	7.4.1, 7.6.1	Perform Assigned ICS Duties	**Mandatory**
HMT 04	7.2.3, 7.3.4, 7.6.1	Documenting and Terminating the Incident	**Mandatory**
HMT 07	7.4.2	Personal Protective Equipment Use	**Mandatory**
Type 1 Random Practical Skills: ***One Selected for Final Examination Requirement***			
HMT 05	7.2.1, 7.2.2, 7.3.2	Detection and Monitoring	Type 1 Random
HMT 06	7.2.1, 7.2.2, 7.3.2	Sampling	Type 1 Random
Type 2 Random Practical Skills: ***One Selected for Final Examination Requirement***			
HMT 08	7.3.2, 7.3.4, 7.4.3.4, 7.5.1	Liquid Product Transfer	Type 2 Random
HMT 11	7.2.3, 7.2.4, 7.2.5, 7.3.2, 7.3.4, 7.4.3.1, 7.4.3.2, 7.5.1	Perform Control Functions: 150 lbs. Pressure Vessel	Type 2 Random
HMT 12	7.2.3, 7.2.4, 7.2.5, 7.3.2, 7.3.4, 7.4.3.1, 7.4.3.2, 7.5.1	Perform Control Functions: 1-Ton Pressure Vessel	Type 2 Random
HMT 13	7.2.3, 7.3.1, 7.3.2, 7.3.4, 7.4.3.1, 7.4.3.2, 7.4.3.3, 7.5.1	Perform Control Functions: Non-Bulk Container	Type 2 Random
HMT 14	7.2.3, 7.3.1, 7.3.2, 7.3.4, 7.4.3.1, 7.4.3.2, 7.5.1	Perform Control Functions: MC306/DOT406 Cargo Tank	Type 2 Random
Type 3 Random Practical Skills: ***One Selected for Final Examination Requirement***			
HMT 09	7.1.7, 7.4.4.1	Mass Decontamination	Type 3 Random
HMT 10	7.3.3, 7.4.3.2, 7.4.4.2	Technical Decontamination	Type 3 Random

		HAZARDOUS MATERIALS TECHNICIAN REQUIRED EQUIPMENT LIST
☐	**1**	Access to electronic plume modeling software, computers, and monitoring equipment
☐	**2**	Access to NFPA 1072 Standard
☐	**3**	Adequate water hose and appliances to support decontamination scenarios
☐	**4**	Air monitor equipment that includes Oxygen, Lower Explosive Limit (LEL), H2S, and Carbon Monoxide (may be individual detectors)
☐	**5**	Air purifying respirator/ powered air purifying respirator (APR/PAPR)
☐	**6**	Applicable ICS and relevant HazMat forms
☐	**7**	Chlorine "A" kit
☐	**8**	Chlorine "B" Kit
☐	**9**	Cleaning supplies (PPE, hose, tools, SCBA)
☐	**10**	Current Emergency Response Guide Book (1 per student)
☐	**11**	Decontamination supplies and equipment, to include non-ambulatory victim decon
☐	**12**	Decontamination trainers or victims
☐	**13**	Dome clamps
☐	**14**	Field Preplanning Survey Forms
☐	**15**	Level A vapor-protective ensemble for each candidate
☐	**16**	Level B splash-protective ensemble for each candidate
☐	**17**	Level C splash-protective ensemble for each candidate
☐	**18**	Map or Drawing templates for pre-inspections/surveys
☐	**19**	Materials for absorption, damming, diking, diversion, retention, dispersion and suppression
☐	**20**	Notebook/Clipboard for candidate use
☐	**21**	Passive dosimeters for demonstration of use
☐	**22**	Photoionization detectors (May be included with #4 Air monitor)
☐	**23**	Plug and patch materials kit
☐	**24**	Portable radio
☐	**25**	PPE for Decon
☐	**26**	Pressurized 150 lb. chlorine training cylinder
☐	**27**	Pressurized 1-Ton chlorine training cylinder
☐	**28**	Radiation detection instruments
☐	**29**	Radiation test source
☐	**30**	Radioactive package/container
☐	**31**	Radiological dosimetry device
☐	**32**	Radiological survey meter
☐	**33**	Reagents (colorimetric tubes)
☐	**34**	Rescue dummy or extra person to use as a victim
☐	**35**	Salvage tarps/covers (assortment)
☐	**36**	SCBA/SAR for use by participants
☐	**37**	Service Tags and Maintenance log book/record
☐	**38**	Solid, liquid, and gas test simulants and collection equipment
☐	**39**	Test strips (F paper, pH paper, KI paper, M8 and M9)
☐	**40**	Three 55-gallon drums (for containment scenarios)
☐	**41**	Three over pack drums
☐	**42**	Traffic/scene control devices
☐	**43**	Various hand tools that would be used for HazMat response to include bung wrench, screw drivers, and mallet.
☐	**44**	WMD detectors (chemical & biological)

HAZARDOUS MATERIALS TECHNICIAN REQUIRED EQUIPMENT LIST		
☐	**45**	Written and electronic reference material (i.e. NIOSH Pocket Guide, CHRIS Manual, Safety Data Sheets, WISER, CAMEO)
☐	**46**	Written or electronic chemical compatibility reference data

HAZARDOUS MATERIALS TECHNICIAN FACILITY CHECKLIST		
☐	**1**	Adequate water supply for Decontamination and exercises
☐	**2**	AHJ Incident Action Plan or Standard Operating Procedure
☐	**3**	AHJ Site Safety & Control Plan
☐	**4**	Decontamination plan
☐	**5**	MC-306/DOT 406 training simulator
☐	**6**	Parking lot/training ground for conducting practical skills
☐	**7**	Pump apparatus with water tank/source

ALASKA HAZMAT INCIDENT DATA
PRACTICAL WORKSHEET

INCIDENT DATA CHECKLIST

Incident Date:		Incident Time:
Incident Location/Address:		
Incident Data:		
Incident Type:	☐ Fixed Facility	☐ Spill
	☐ Transportation	☐ Leak
	☐ Water	☐ Fire
	☐ Flowing Product	☐ Explosion
Contamination:	☐ People (Number: _____)	
	☐ Environment	
	☐ Water	
	☐ Ground/Soil	
	☐ Air	
	☐ Contained	
	☐ Spreading	
Shipper's Name/Callback #:		
Manufacture's Name/Callback #:		
Facility Owner/Callback #:		
Other Information:		

PPE / CPC LOG SHEET

Date:		Time:		Location:			
Incident Commander:							
Incident Safety Officer:							
Substance Involved:	☐ Solid		☐ Liquid		☐ Gas		
Exposure (Signs, Symptoms, Care):							
EMS On-Site:	☐ Yes ☐ No	Hospital:					
Entry PPE:	☐ Level A		☐ Level B		☐ Level C		☐ Level D
	Compatibility Chart Used:		☐ Yes ☐ No		Which One:		
Decon PPE:	☐ Level A		☐ Level B		☐ Level C		☐ Level D
	Compatibility Chart Used:		☐ Yes ☐ No		Which One:		
Other PPE Info:							
Decon Plan (Wet, Dry, Chemical Specific, None):							

ALASKA HAZMAT INCIDENT DATA
PRACTICAL WORKSHEET

PRODUCT INFORMATION FORM

Product Name:			
Product UN ID #:		DOT ERG Guide #:	
Placards/Labels:		Color:	
Product Physical State:	☐ Solid ☐ Liquid ☐ Gas		
Routes of Exposure:	☐ Inhalation	☐ Absorption	
	☐ Ingestion	☐ Injection	
Hazards:	☐ Flammable/Combustible	☐ Toxic	
	☐ Corrosive	☐ Explosive	
	☐ Radioactive	☐ Asphyxiant	
	☐ Unstable	☐ Pyrophoric	
	☐ Sublimes	☐ Heated / Cold	
	☐ Water Reactive	☐ Water Soluble	
Information Sources:	☐ SDS	☐ Shipping Papers	
	☐ HMIS	☐ NFPA 704	
	☐ Information Attached		

Container Information			
☐ Non-Bulk Container Type:	☐ Bag	☐ Jar	
	☐ Can	☐ Fiber Drum	
	☐ Tote	☐ Steel Drum	
	☐ Cylinder	☐ Plastic (Poly) Drum	
	☐ Box	☐ Stainless Steel Drum	
	☐ Carboy		
☐ Pipeline Type:	☐ Liquid	☐ Gas	☐ Slurry
☐ Highway Container Type:	☐ Box Trailer	☐ MC306 / DOT406	☐ MC331
	☐ Van	☐ MC307/DOT407	☐ MC338
	☐ Dry Bulk	☐ MC312/DOT412	
	☐ Tube Trailer	☐ MC331	
Truck Number:		Company:	
☐ Railroad Container Type:	☐ Box	☐ Hopper	☐ Dry Bulk
	Car Number(s):		

☐ Nonpressure Container Type:	☐ 103	☐ 104	☐ 111
	Other:		
☐ Pressure Container Type:	☐ 105	☐ 112	☐ 114
	☐ Atmospheric		☐ Low
	☐ High		☐ Ultra-High
	☐ Other:		
☐ Intermodal Type:	☐ Container	☐ Trailer	☐ IMO 107
	☐ IM 101	☐ IM102	☐ Tube
	☐ Spec 51	☐ IMO105	
☐ Water Container Type:	☐ Ship		☐ Barge
	Vessel Name:		

☐ Fixed Container Type:	☐ Cone Roof	☐ Open Top Floater
	☐ Internal Floating Roof	☐ Dome
	☐ Horizontal Pressure	☐ Horizontal Atmospheric
	☐ Cryogenic	☐ Underground
	☐ Other:	

Estimated Container Capacity:		☐ Gallon ☐ Pounds
Estimate Amount Released:		☐ Gallon ☐ Pounds

Container Stressors:	☐ Thermal:	
	☐ Mechanical:	
	☐ Chemical:	

Type of Damage:
Damage Sketch: