

**Beaumont Fire-Rescue Services**

**PERFORMANCE BENCHMARKS**

**406.03M**

**Highway Cargo Tank Emergency Response**

**Discipline:** Hazmat – Technician Level  
**Effective:** 7/5/2011  
**Revised:**  
**Replaces:**

*Anne Huff, Fire Chief*

**I. Objective**

- A. Given scenarios involving hazardous materials/WMD incidents, the hazardous materials technician shall select the tools, equipment, and materials for the control of hazardous materials/WMD incidents and identify the precautions for controlling releases from the packaging/containers and shall complete the following tasks:
- B. Given an MC-306/DOT-406 cargo tank and a dome cover clamp, demonstrate the ability to install the clamp on the dome.
- C. Identify the methods and precautions used to control a fire involving an MC-306/DOT-406 aluminum shell cargo tank.
- D. Describe at least one method for containing each of the following types of leaks in MC-306/DOT-406, MC-307/DOT-407, and MC-312/DOT-412 cargo tanks:
  - 1. Dome cover leak
  - 2. Irregular-shaped hole
  - 3. Puncture
  - 4. Split or tear
- E. Describe three product removal and transfer considerations for overturned MC-306/DOT-406, MC-307/DOT-407, MC-312/DOT-412, MC-331, and MC-338 cargo tanks.

**II. Instructions – Procedures for Achieving the Objective**

You will be presented with a MC 306/DOT 406 cargo tank, which is leaking a product from one of the dome covers. You will gather the necessary equipment for grounding the cargo tank and controlling the leak coming from the dome cover. You will properly install the dome clamp and ground and bond the cargo tank in anticipation of product transfer operations. You will be graded as a team. You will begin on my instruction to start. The skill will end when you state or indicate to me that you have completed the above identified steps. Do you understand these instructions?

**III. Examiner's Note**

The hazardous materials technician will not be allowed to review the performance steps at the time of testing.

**IV. Preparation & Equipment**

- A. 1 - MC 306/DOT 406 Cargo tank laying on its side and water spilling out of a dome cover; or a Cargo tank dome cover training simulator and water spilling out of the dome cover

- B. 1 - Dome cover clamp
- C. 1 - LEL monitor
- D. 1 - Complete set of grounding equipment
  - 1. Ground rod
  - 2. Ground clamps
  - 3. Non-sparking hammer

The hazardous materials technician shall accomplish the skill wearing "**FULL PROTECTIVE CLOTHING FOR STRUCTURAL FIREFIGHTERS**" as required by the Texas Commission on Fire Protection to include helmet, coat, trousers, boots, and SCBA.

**V. Reference Sources**

See Reference Sources in PB 406.03A.

**PB 406.03M – Highway Cargo Tank Emergency Response**  
**Discipline: Hazardous Materials**

Name:	Officer #:
Evaluator:	Officer #:
Date:	Location:

**The Haz Mat Technician shall:** *(No partial points given)*

- A. Identify the maintenance and inspection procedures for the tools and equipment provided for the control of hazardous materials releases according to the manufacturer’s specifications and recommendations ..... P/F \_\_\_\_
- B. Identify three considerations for assessing a leak or spill inside a confined space without entering the area ..... P/F \_\_\_\_
- C. Identify three safety considerations for product transfer operations ..... P/F \_\_\_\_
- D. Given an MC-306/DOT-406 cargo tank and a dome cover clamp, demonstrate the ability to install the clamp on the dome ..... P/F \_\_\_\_
- E. Identify the methods and precautions used to control a fire involving a MC-306/DOT-406 aluminum shell cargo tank ..... P/F \_\_\_\_
- F. Describe at least one method for containing each of the following types of leaks in MC-306/DOT-406, MC-307/DOT-407, and MC-312/DOT-412 cargo tanks: Dome cover leak; Irregular-shaped hole; Puncture; Split or tear ..... P/F \_\_\_\_
- G. Describe three product removal and transfer considerations for overturned MC-306/DOT-406, MC-307/DOT-407, MC-312/DOT-412, MC-331, and MC-338 cargo tanks..... P/F \_\_\_\_
- H. Properly bond and ground the cargo tank in preparation of conducting transfer operations..... P/F \_\_\_\_
- I. All tasks performed while wearing a full structural firefighting protective ensemble including SCBA.

**Time Allocation**

Completes skill in allotted time..... P/F \_\_\_\_

**Allotted time for this skill:** \_\_\_\_ minutes \_\_\_\_ seconds  
**Actual time:** \_\_\_\_ minutes \_\_\_\_ seconds

Points Possible	Passing Score	Attempt	Performance Rating (Points)	PASS	FAIL
P/F	P/F	First			
		Second			
		Third			