

Beaumont Fire-Rescue Services

PERFORMANCE BENCHMARKS

406.03K
Using Chlorine Kits

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 a pressure vessel, select the material or equipment and demonstrate a method(s) to contain leaks from the following locations:
 - 1. Fusible plug
 - 2. Fusible plug threads
 - 3. Side wall of cylinder
 - 4. Valve blowout
 - 5. Valve inlet threads
 - 6. Valve seat
 - 7. Valve stem assembly blowout
- C. Given the fittings on a pressure container, demonstrate the ability to perform the following:
 - 1. Close valves that are open
 - 2. Replace missing plugs
 - 3. Tighten loose plugs

II. Instructions – Procedures for Achieving the Objective

You will be provided with a Chlorine Cylinder/Container/Tank Simulator and three chlorine emergency response kits that contain the necessary tools and equipment to contain a leak. The examiner will select a type of leak and or location of the leak. Working as a team, you must choose the proper chlorine kit for the evaluation and effectively stop the leak. Your team must indicate to me when the leak has been controlled. 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 all the 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 - Chlorine 100 or 150 lbs. pressure vessel simulator
- B. 1 - Chlorine One Ton Intermediate Bulk container pressure vessel simulator
- C. 1 - Chlorine Pressure Railcar dome assembly simulator
- D. 1 - Chlorine A Kit
- E. 1 - Chlorine B Kit
- F. 1 - Chlorine C Kit or Midland Emergency Kit
- G. Level A CPC

V. Reference Sources

See Reference Sources in PB 406.03A.

PB 406.03K – Using Chlorine Kits

Discipline: Hazardous Materials

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

The Haz Mat Technician shall:

(No partial points given)

- A. Given a Chlorine 100 or 150 lbs. pressure vessel select a Chlorine Emergency Kit Type A and contain a leak.

Leak Location/Type: _____ P/F _____

- B. Given a Chlorine One Ton Intermediate Bulk container pressure vessel select a Chlorine Emergency Kit Type B and contain a leak.

Leak Location/Type: _____ P/F _____

- C. Given a Chlorine Pressure Railcar Dome assembly select a Chlorine Emergency Kit Type B and contain a leak.

Leak Location/Type _____ P/F _____

- D. All steps must be performed while wearing Level A Vapor Protective Chemical Protective Clothing

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			