



Hazardous Materials Technician Certification

Skill # 16.3 Chlorine “B” Kit – Side Wall of Cylinder

Maximum Time Allowed: 15 min.

INSTRUCTIONS TO THE CANDIDATE

Given a simulated leaking Chlorine “B” ton container and working as a member of a team of two, the candidate dressed in Level “A” personal protective equipment will safely control a leak using the side wall patch and other necessary equipment from the Chlorine “B” Kit provided.

CANDIDATE PERFORMANCE

	1 st Attempt		2 nd Attempt	
	Yes	No	Yes	No
◆ Candidate has informed the evaluator that they have been trained in this skill.				
Entry and all control operations are conducted as a team and performed in a safe manner, approaching from up hill and up wind. Avoids down wind positions and contact with product when possible.				
If more than one container is in the location, attempt to locate the leaking ton container by visible chlorine vapor or by using vapor from an aqua ammonia (ammonium hydroxide) squeeze bottle to create a visible reaction (vapor cloud).				
If the container is connected to piping/process unit, close valves that connect the ton container to the process and turn off the process after consulting with the process operator/owner (verbalize contacting the operator/owner before turning systems off).				
Observes any conditions that would indicate reactivity with container or other product				
Safely pin-points the location of the leak in the container. Detects the presence and location of non-visible leak using aqua ammonia vapor.				
Attempts to roll/position ton container so that leak is in the uppermost position. Insures container wall around leak is sound before proceeding with repair.				
Assemble all tools that will be required for this operation. Wrench 101 Yoke 9B Chain 9A Gasket 9EV Patch 9D Scraper B-5 Cap Screw 9C				
Adjust Cap Screw in Yoke until point of screw extends only slightly below Yoke.				
If container is not on rack or rails, places container on planks or digs trench under container to pass chain. Slips one end of Chain under container and pulls in through until it reaches the approximate area of the leak.				
Insures Chain is straight and not twisted.				
Center Cap Screw and Yoke in Patch depression.				
Hooks free ends of Chain to the ears on each side of Yoke, keeping Chain as short as possible.				
Uses Scraper to remove loose or uneven paint around leak, if present. Places Gasket and Patch over leak.				
Using Wrench, tightens Cap Screw to control leak.				
◆ Immediately stops tightening the Cap Screw if there is any evidence of the container wall is weakening.				
◆ Check for leakage using ammonium hydroxide vapor and tighten the set screw further if necessary.				
Total steps candidate must complete to pass:	13	Total		

◆ **Critical Step** - Failure on this step mandates failure on the entire objective!

Candidates Name _____



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1st Evaluator Signature _____ Date _____

2nd Evaluator Signature _____ Date _____

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Objective(s): **7.1.2.2(3)(c), 7.4.3.(1)(c)** **NFPA 472 Standard** **2008 Edition**

INSTRUCTIONS TO THE MONITOR/EVALUATOR

1. The candidate must indicate that they have been instructed how to perform this skill. A negative answer is an immediate failure. No second attempt is allowed. This step doesn't count for the total number of steps the candidate must complete.
2. Evaluator or support staff shall assemble the Chlorine "B" ton container prop, air supply for simulating ton container leaks, and a complete Chlorine "B" Emergency Repair Kit.
3. PPE should be level A protective gear
4. Evaluator shall prepare the prop/air supply to simulate the appropriate leak.
5. Maximum pressure on the leaking device shall not exceed 175 psi (normal range 75-110 psi).
6. The evaluator and all personnel in the immediate area must wear eye protection. Hearing protection may be necessary with specific props/leaks and operating pressures.
7. The proctor must provide the candidate with the following equipment:
 - a. **Chlorine B Kit.**

Proctor/Candidate Comments

I was informed of the task steps missed that resulted in the failure of this skill and the OSU-FST re-test policies.

Candidate Signature

Date