



Hazardous Materials Technician Certification

Skill # 16.8 Chlorine "B" Kit – Valve Stem Blowout	Maximum Time Allowed: 15 min.			
<u>INSTRUCTIONS TO THE CANDIDATE</u>				
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 the leak using the proper sequence of steps and necessary equipment from the Chlorine "B" Kit provided.				
CANDIDATE PERFORMANCE			1st Attempt	
			Yes	No
			2nd Attempt	
			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 ton 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				
Remove valve protective hood from ton container if in place.				
Safely pin-points the location of the leak in the container. Detects the presence and location of non-visible leak using aqua ammonia vapor.				
Positions ton container so that the valve is in the uppermost position.				
<i>If the team experiences a valve stem assembly blowout while working with the ton container they should perform the following steps:</i>				
◆ Positions ton container so that the valve opening is in the uppermost position and immediately drives small Drift Pin into valve body.				
<i>Applies Device 12 (Hood Assembly) as follows:</i>				
Removes outlet cap from Vent Valve (12V) on Hood and opens Valve.				
Loosens Adjusting Screws and retracts Jack Screws sufficiently to allow insertion of Adjustable Bar Assembly behind chime of container.				
Places Adjustable Bar Assembly in vertical position to make adjustments.				
Cleans loose or uneven paint from head of ton container around leaking valve using Scraper.				
Inspects and places Gasket on Hood, places Hood over leaking valve. <i>(for containers with ridge between the valves, uses molded Gasket with depression placed over ridge)</i>				
Adjust lower Jack Screw to center one Cap Screw over Hood and adjust upper Jack Screw so that Adjustable Bar Assembly fits tightly inside chime. Uses Wrench to tighten Adjusting Screws.				
Uses Wrench to tighten Cap Screw forcing Hood and Gasket against head of container. <i>(Doesn't over tighten Cap Screw, tightens on enough to stop leak)</i>				
◆ Closes Vent Valve slowly and checks for leaks using ammonium hydroxide vapor.				
If leak persists, opens Vent Valve and uses Wrench to further tighten Cap Screws until leak is controlled.				
Total steps candidate must complete to pass:			14	Total

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



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Candidates Name _____

1st Evaluator Signature _____ Date _____

2nd Evaluator Signature _____ Date _____

Skill # 16.8 Chlorine "B" Kit – Valve Stem Blowout		
Objective(s): 7.1.2.2(3)(c), 7.4.3.(1)(h)	NFPA 472 Standard	2008 Edition
<u>INSTRUCTIONS TO THE MONITOR/EVALUATOR</u>		
<ol style="list-style-type: none"> 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. PPE should be level A protective gear. 3. 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. 4. Evaluator shall prepare the prop/air supply to simulate the appropriate leak. 5. 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. 6. The proctor must provide the candidate with the following equipment: <ol style="list-style-type: none"> a. Chlorine A Kit. 		
REFER TO EVALUATION EQUIPMENT LIST FOR SPECIFIC TOOLS AND EQUIPMENT		
Proctor/Candidate Comments		
<p>I was informed of the task steps missed that resulted in the failure of this skill and the OSU-FST re-test policies.</p> <p>_____</p>		
Candidate Signature		Date