

# Job Safety Analysis Form

<b>Picture of task/equipment:</b>	<b>Task:</b>	CHANGING THE GAS CYLINDERS
	<b>Name of Shop or Dept:</b>	
	<b>Job Title(s):</b>	
	<b>Analyzed by:</b>	
	<b>Date:</b>	
<b>Required PPE:</b>		
1. Closed Toe Shoes		
<b>Required/Recommended Trainings:</b>		
1. Bruin Safety Training 2. Lab Safety Training		
<b>TASK</b>	<b>HAZARDS</b>	<b>CONTROLS</b>
1. Transport the full gas cylinder	1a. The cylinders may fall off the cart while transporting.	1a1. Never transport a cylinder, even across a room, without the metal cap over the valve. 1a2. Secure the cylinder to the hand truck with a chain or strap. 1a3. Use a hand truck or cart to transport cylinders.
2. Replace the empty gas cylinder with the full one	2a. Gas cylinders may fall over. 2b. Gas can leak from open valves. 2c. The misplaced washer may cause gas leakage. 2d. Dust or left over teflon tape on the cylinder outlet may cause gas leakage. 2e. The cylinder may have a pressured leakage. 2f. The cylinder may leak slightly. 2g. The regulator may misread pressure. 2h. Warm areas or direct sunlight may cause pressure increases. 2i. The cylinders contains compressed/pressurized gas and can explode.	2a1. Restrain the gas cylinder with upper and lower chains to secure to a wall or cylinder stand. 2b1. Close the valve before taking off the regulator. 2c1. Check the washer before fitting the regulator. 2d1. Wipe the outlet with a clean and dry cloth. 2d2. Seal the cylinder outlet with new teflon tape. 2d3. Place the regulator on the cylinder and tighten. 2e1. Open the cylinder valve at <u>low</u> and check for leakage. 2e2. Stand to the side of the regulator. 2e3. Select a well-ventilated area to store cylinders. 2f1. Squirt a soapy solution around the tightened valve-regulator junction to check for leaks. If there is no bubbling then seal is good. 2g1. Check the regulator for the correct pressure and set if necessary. 2h1. Select a cool, dry and well-ventilated area to store cylinders. 2i1. Do not permit a flame or spark to come in contact with the gas cylinder.
3. Transport the empty cylinder	3a. Empty cylinder may be mistakenly used.	3a1. Mark and label the cylinder as "empty" and store at the designated area.