

Pre-Use Activities

- Review and understand information provided in the gas-welding regulator and hand torch equipment brochures, specifically the safety procedures.
- Inspect the gas cylinders, hoses, regulator, and hand torch for damage or disrepair.
- Ensure all hoses are connected properly.
- Notify supervisor and remove the welding equipment from service by attaching a red tag that states "OUT OF SERVICE" if the gas cylinders, hoses, regulator, or hand torch fails the pre-use inspection. Complete red tag with appropriate information.



 <u>HOT WORK PERMIT REQUIRED.</u> Obtain a hot work permit from the Environmental Health and Safety webpage: <u>http://www.wvu.edu/~ehs/formsinstructions.cfm</u>.

Operating Precautions

- Wear a welding hood with SHADED lens; requires at least a No.5 lens shade for gas welding.
- Wear welding gloves and appropriate protective clothing when using gas-welding equipment.
- Securely fasten gas cylinders to a wall, dolly, or welding cart.
- Use acetylene or other fuel-gas cylinders in an upright position only.
- Assure that the regulator and fitting match the type of gas and cylinder being used and are approved by the Compressed Gas Association.
- Prevent potential explosive or flammable conditions by never allowing oxygen to come in contact with oil, grease, or other flammable materials.
- Stand to one side and away from the regulator when opening gas cylinder valves.
- Crack (i.e., open slightly and close immediately) the cylinder valve before connecting a regulator.
- Use a **friction lighter** to light a hand torch. Do not use matches or a lighter.
- Begin gas-welding tasks:
 - 1. Open the acetylene valve on the hand torch and light the gas.
 - 2. Open the hand torch oxygen valve and adjust the flame.
- Turn off gas cylinders when welding operations are suspended for a substantial period of time.
- Complete gas welding:
 - 1. Close the hand torch acetylene valve.
 - 2. Close the oxygen valve.
 - 3. Close the acetylene cylinder valve
 - 4. Close the oxygen cylinder valve.
 - 5. Release pressure by opening both hand torch valves
 - 6. Turn off the regulator adjusting handle.
 - 7. Close both hand torch valves.