

## Safe Work Practice (SWP)

Name of Task <b>Welding (Oxy-Acetylene)</b>	
Department/Unit: Trades Programs	
Personal Protective Equipment or other required equipment and safety considerations: Eye protection (welding goggles), CSA approved footwear, face shield, welding gloves, and hearing protection.	
Hazards: Burns, sparks, fumes, flashbacks, radiation damage to eyes, and explosion by gas leakage.	
Required Training:	<ul style="list-style-type: none"> <li>Read and understand General Safety Practices and GSP Metalworking Machines.</li> <li>Read and understand Material Handling Practices.</li> <li>Read and understand Compressed Gas Regulators Practices.</li> <li>Instructor supervision required.</li> </ul>
Steps to be taken to complete task safely:	
1	<b>Pre-Operational Safety Checks:-</b> <ul style="list-style-type: none"> <li>Inspect required personal protective equipment and replace if necessary. Faulty equipment must not be used. Immediately report suspect equipment.</li> </ul>
2	<b>Prohibited Activities:</b> <ul style="list-style-type: none"> <li>Do not smoke.</li> </ul>
3	Wear appropriate personal protective equipment.
4	Check that the oxygen and acetylene regulator adjusting knobs are loose.
5	Check that both blowpipe valves are closed.
6	Slowly open the oxygen valve all the way.
7	Slowly open the acetylene valve a quarter way.
8	Adjust oxygen pressure, adjust acetylene pressure.
9	Purge and check for constant oxygen and acetylene gas flow.
10	Open the acetylene blowpipe valve slightly and light the blowpipe with a flint lighter.
11	Continue to slowly open the acetylene valve until the flame no longer produces soot.
12	Slowly open the oxygen blowpipe until a neutral flame is produced.
13	<b>Shut-down:</b> Close the acetylene blowpipe valve first and then the oxygen blowpipe valve.
14	Close both cylinders.
15	Open oxygen blowpipe valve to release gas.
16	When oxygen gauge reads zero, unscrew regulator-adjusting knob.
17	Close oxygen blowpipe valve.
18	Open acetylene blowpipe valve to release gas.
19	When acetylene gauge reads zero, unscrew regulator-adjusting knob.
20	Close acetylene blowpipe valve.
21	<b>Post-Operational Safety Checks:</b> <ul style="list-style-type: none"> <li>Clean up work area.</li> </ul>
<b>If an emergency situation occurs while conducting this task, or there is an equipment malfunction, shut the equipment off immediately and follow the lock out procedure. Report any hazardous situation to your instructor/supervisor immediately.</b>	

### Responsibilities, Completion and Review

*Management and workers to ensure all duties performed in accordance to training, established health and safety regulations/guidelines, policies and procedures (e.g. utilizing personal, protective equipment as per SAFE Work Procedures). Notify Manager or designates (i.e. supervisors) of all occurrences, injuries illnesses or safety and health concerns which are likely to harm themselves, co-workers, or any others who enter the premises.*

**Completed by and Date:**

**Approved by:**

**Last Reviewed/Revised by and Date:**

**Note:** This task will be monitored periodically to ensure compliance and effectiveness.