

## Safe Work Practice (SWP)

<b>Name of Task</b> <b>Soldering (Plumbing)</b>	
<b>Department/Unit: Trades Programs, Maintenance</b>	
<b>Personal Protective Equipment or other required equipment and safety considerations:</b> Eye protection, CSA approved footwear, protective clothes that cover arms and legs, welding gloves and respirator if required.	
<b>Hazards:</b> Burns, sparks, fumes, electric shock and hot metals.	
<b>Required Training:</b>	<ul style="list-style-type: none"> <li>Read and understand General Safety Practices, GSP for Metalworking Machines and GSP for Material Handling.</li> </ul>
<b>Steps to be taken to complete task safely:</b>	
1	<b>Pre-Operational Safety Checks:-</b> <ul style="list-style-type: none"> <li>Inspect required personal protective equipment and replace is necessary.</li> </ul>
2	Wear appropriate personal protective equipment.
3	Ensure pipe is secured from moving by using a bench vise or clamping in place.
4	Lightly sand the end of the pipe and inside the fitting cup.
5	Apply a thin film of flux to the end of the pipe and inside the fitting cup with a brush.
6	Assemble the pipe end into the fitting cup. Use a firm grip and twist the pipe to ease the assembly and prevent your hand from slipping.
7	Wipe off access flux from assembled pipe with a dry cotton cloth.
8	Carefully heat pipe assembly by applying heat first to the pipe then to the fitting. Alternate between pipe and fitting with a fanning motion to uniformly heat the assembly
9	Apply solder to the fitting cup at the bottom and work up both sides using solder as a pyrometer.
10	Shut off torch, drain hose, and back-off regulator.
11	After the assembly has cooled, wipe with a damp cloth to remove excess flux.
12	<b>Post-Operational Safety Checks:-</b> Ensure work area is clean and equipment stored.
<b><i>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.</i></b>	
<b>Responsibilities, Completion and Review</b>	
<i>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.</i>	
<b>Completed by and Date:</b>	<b>Approved by:</b>
<b>Last Reviewed/Revised by and Date:</b>	<b>Note:</b> This task will be monitored periodically to ensure compliance and effectiveness.