



Safe Work Practice (SWP)

Name of Task Band Welder	
Department/Unit: Trades Programs, and Maintenance	
Personal Protective Equipment or other required equipment and safety considerations: Eye protection, face shield, CSA approved safety footwear, leather work gloves, and hearing protection.	
Hazards: Flying sparks, hot material, burns and cut hazards, moving parts on machine (grinding wheel), sharp edges, pinch or crush hazards, and shock hazards on portable machines	
Required Training:	<ul style="list-style-type: none">• Shop safety orientation• Hands-on training with instruction for proper safety procedures• Instructor observed student operation
Steps to be taken to complete task safely:	
1	Pre-Operational Safety Checks: <ul style="list-style-type: none">• Ensure machine is off.• Ensure that there are no slips or trip hazards in the work area.• Check all moving and non-moving parts for proper operation.• Ensure that the saw blade is properly secured.• Match blade to the job.• Check electrical cords for fraying on portable units.• Make sure grind stone is turned off when not in use.• Make sure portable units are secured properly.• One operator at a time.• Do not remove, modify, or disable safety equipment or features.• Keep fingers out of the weld zone.• Inspect required personal protective equipment and replace if required.
2	Put on all required personal protective equipment.
3	Cut to length for machine using blade shear on machine.
4	Square blade ends using grinder on blade welder.
5	Remove the correct number of teeth on both sides of the blade (to match blade pitch).
6	Adjust jaw gap "upset pressure" for blade width and thickness.
7	Adjust welding amperage for blade size.
8	Clamp blade teeth facing operator.
9	Center blade ends between clamp jaws. Tighten jaws.
10	Press welder lever to weld blade and the release handle.
11	Unclamp when cool and center weld between jaws. Reclamp.
12	Anneal weld by pressing anneal button until the weld is dull red.
13	Cycle anneal button (on and off) to cool weld.
14	Remove blade.
15	Do a bend test (flex weld 2 or 3 times) if the blade does not break it is usable.
16	Grind weld to match blade thickness (must slide through gauge).
17	If the blade is not used right away, put on gloves and fold blade for storage.

18	Post-Operational Safety Checks: <ul style="list-style-type: none"> • Ensure machine is off • Place all materials in the proper storage areas and place scrap in disposal bins • Ensure the equipment/workspace is clean, safe and tidy before leaving it.
<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>	
Responsibilities, Completion and Review	
<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>	
Completed by and Date:	Approved by:
Last Reviewed/Revised by and Date:	Note: This task will be monitored periodically to ensure compliance and effectiveness.