



Safe Work Procedure		General Welding	
Department / Area: Physical Plant Services	Approved By: Regional Manager of Physical Plant Services	Date Created: September 5 2014	Review Date: Revised date:
Potential Hazards: Fill in those that apply H M L Risk for Injury Image: Second Sec		 Personal protective equipment / devices required / other safety considerations: Appropriate Welding eye protection/shield/helmet Welding gloves Welding curtain to shield others Arm protection Ensure fire extinguisher is readily available Secure loose clothing, hair, drawstrings from hoods that could become entangled in tool Heavy items may require hoist or lifting assistance Training / Reference Information: Hot Work Permit Department Orientation Operator's Manual Appropriate training for Welding Refer to Manufacturer for use of welding wire product WHMIS Training MSDS Training 	
numbness/tingling, and/or loss of movement or strength in a body part. Report these to your supervisor.			
Employers must ensure that workers are trained and follow this safe work procedure. Steps to perform this task safely:			
Electric Operation:			
 Fill out hot work permit. Inspect equipment for obvious damage. Review MSDS. Ensure Fire Extinguisher near worksite. The work area should be free of debris / clutter to reduce risk for slips, trips, or falls. Ensure cable and any flammable materials are not close to the welding rod or material. Never touch to see if hot. Ensure the environment is well-ventilated so fumes are not exposed to operator. A fume hood, fan, or other appropriate ventilation may need to be used. Close flash curtain. Ensure current is correct according to electrode selection. Ensure welding machine and the piece to weld is properly grounded. Use mechanical hoist or use safe lifting techniques if piece is within safe lifting loads (50 pounds) by using leas to 			

▶ Use mechanical hoist or use safe lifting techniques if piece is within safe lifting loads (50 pounds) by using legs to

weight shift, keeping the back straight, take steps to turn rather than twisting to set up work piece.

- > Attempt to set work at height and placement to reduce prolonged forward lean / slouch.
- Secure item from falling as appropriate.

Torch Operation:

- > Fill out hot work permit. Inspect equipment for obvious damage.
- ➢ Review MSDS.
- > Ensure Fire Extinguisher near worksite.
- > The work area should be free of debris / clutter to reduce risk for slips, trips, or falls.
- Ensure the environment is well-ventilated so fumes are not exposed to operator. A fume hood, fan, or organic vapor cartridge may need to be used. Refer to Manufacturer for safe use instructions.
- > Remove or shield flammables in the immediate area.
- > Ensure gas is on and set flow. Ignite torch, keeping flame away from your body.
- > Be aware of dripping solder so it doesn't make contact with self or others.
- > Do not leave a lit torch unattended.
- Always ensure welder helmet is down when welding or cutting. Do not flip helmet up and down with your neck, as this places extra stress on your neck.
- > Once welding is complete, de-energize equipment, and ensure gas is shut off.
- > Remove electrode stub from holder once it has cooled.
- > If using a pneumatic chipping hammer, use gloves to reduce vibration.
- > Return oxygen and acetylene tanks to storage area and secure.
- If moving work piece to another area use correct lifting technique, and if item is heavy use mechanical aid, such as an appropriate cart, to transport.