

## Safe Work Practice (SWP)

Name of Task: CNC Plasma Cutter			
Department/Unit: T	Frades		
<ul> <li>Eye Protection I</li> <li>Long or loose hi</li> <li>No loose-fitting</li> <li>No jewelry, wate</li> <li>Protective Aproved</li> <li>CSA Approved</li> <li>Face Shield Ree</li> <li>Fume Hood Reep</li> <li>Approved Respi</li> <li>Hearing Protect</li> </ul>	air must be tied back or contained clothing ches, rings, necklaces etc. n Required Safety Footwear required quired quired irator Required ion Required		
<ul> <li>Welding Gloves Required</li> <li>Protective Clothing Required</li> </ul>			
Electric shock	to eyes and body		
Hot or molten m     Required			
Training	<ul> <li>Successful completion of NBCC Safety Course (Work Safely or Workplace Safety Practices)</li> <li>Shop safety orientation</li> <li>Read and understand SWP</li> <li>For students, practical demonstration and Instructor supervision required</li> </ul>		
Pre-Operational Safety Checks	<ul> <li>Inspect required personal protective equipment and replace if required.</li> <li>Ensure no slip/trip hazards are present in workspaces and walkways.</li> <li>Make sure guards, if present, are installed and are working properly. • Faulty equipment must not be used. Immediately report suspect machinery.</li> <li>Locate and ensure you are familiar with the operation of the ON/OFF starter.</li> <li>Ensure the work area is clean and clear of grease, oil, and any flammable materials.</li> <li>Keep plasma cutter and work area dry to avoid electric shocks.</li> <li>Ensure the gloves are dry and free from holes to avoid electric shocks.</li> <li>Ensure torch and ground leads and cable are in good condition.</li> <li>Ensure fume extraction unit is on before beginning welding operation.</li> <li>Ensure other people are protected from flashes by closing curtain to welding bay or by erecting screens.</li> </ul>		
Prohibited Activities	<ul> <li>Do not leave this equipment unattended while running</li> <li>Do not use bare hands and never wrap electrode leads around yourself.</li> <li>Never plasma cut or watch plasma cutting without using a protective shield.</li> <li>Do not use around flammable materials.</li> </ul>		

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	flammable liquids at one		
	Do not use while wearing		
	Steps to be taken t	to complete task safely:	
1	Wear appropriate personal protective equipment (PPE).		
2	Make all adjustments with POWER OFF.		
3	Make sure all guards are in place, properly adjusted, and secured.		
4	Open fume hood and turn on fume extractor.		
5	Ensure that work area is clean and clear of grease, oil, and any flammable materials.		
6	Position metal and clamp if necessary.		
7	Securely attach ground cable to work. Ensure the ground lead makes firm contact and does not create a tripping hazard.		
8	Set-up plasma cutter current.		
9	For drag cutting, keep the torch in contact with the workpiece.		
10	For standoff cutting, hold the torch 3-9 mm (1/8 - 3/8 in) from the workpiece		
11	With the torch in starting position, press and hold the Torch Trigger		
12	Once on, the cutting arc remains on as long as the Torch Trigger is held down, unless the torch is withdrawn from the work or torch motion is too slow.		
13	Release Torch Trigger to shut OFF torch.		
14	Allow workpiece to cool to room temperature before handling.		
15	Clean up work area		
	If an emergency occurs while conducting the equipment off immediately and follow	g this task, or there is an equipment malfunction, shut w the lock out procedure.	
	REPORT ANY HAZARDOUS SITUATIO	ON TO YOUR INSTRUCTOR/SUPERVISOR	
	Housekeeping		
	Ensure equipment is off.		
	Place all materials in their proper storage areas.		
	Switch off the machine and fume extraction.		
	Close air supply valve.		
	<ul><li>Hang up torch and ground cable.</li><li>Ensure the equipment is safe, clean and tidy before you leave it.</li></ul>		
	Ensure the equipment is safe, clean	ו מווע וועץ שפוטופ אטע ופמעפ ונ.	
		Completion and Review	
regula Proc	ations/guidelines, policies and procedures (e.g. edures). Notify Manager or designates (i.e. supe	ned in accordance to training, established health and safety utilizing personal, protective equipment as per SAFE Work ervisors) of all occurrences, injuries illnesses or safety and ves, co-workers, or any others who enter the premises.	
Compl	leted by and Date:	Approved by half hushton	
Ashley Ritchie, 1/28/2021		Approved by.	
Last Reviewed / Revised by and Date:		Note: This task will be monitored periodically to ensure compliance and effectiveness.	

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Version 1.0

2600.5541 CNC Plasma Cutter