Plasma Cutter Safety Checklist

The potential hazards you may encounter while plasma cutting consist of:

- Electrical shock
- Burns from hot metal and/or molten materials
- Exposure to noxious gas and/or toxic chemicals
- Radiation damage to eyes and/or exposed skin
- Airborne particles and dust
- Elevated noise levels from heavy machinery

To avoid these potential safety hazards and to ensure safe operations, follow this checklist:

Personal Protective Equipment (PPE)	Operational safety checks
Hearing protection	Ensure the fume extraction unit is on and operational before
□ Welding mask/eye protection	beginning. Is the machine correctly set up for current, voltage, and gas
□ Half-face/air-purifying respirator	flow rate?
	Are return cables making firm contact in order to provide a good electrical connection?
□ Long-sleeve shirts and long pants	Is the workpiece free of any paint, oxides, or other surface
Safety footwear	finishes to ensure a good electrical contact?
Pre-operational safety checks	Pre-operational safety checks
□ Is the operator familiar with all plasma cutter operations and controls?	Is the operator familiar with all plasma cutter operations and controls?
□ Have all emergency stops been located and tested to ensure they're in good, working order?	☐ Have all emergency stops been located and tested to ensure they're in good, working order?
□ Have all electrical connections to the plasma cutter been inspected and are secured and tight?	☐ Have all electrical connections to the plasma cutter been inspected and are secured and tight?
Is the material safe to cut and poses no health risks? Review your Safety Data Sheets (SDS) for specific technical data and precautionary measures for any materials or coatings on metals cut with this equipment.	Never leave the plasma cutter running unattended. Post-operational procedures checks
Are workspaces and walkways free of any trip and fall hazards?	□ Are the cut materials cooled off?
Are workspaces clean and free of oil, grease, and/or any other flammable materials?	□ Is the fume extraction unit turned off?
	\Box Is the plasma cutter turned off at the isolating switch?
□ Are your PPE, equipment, and workspace dry to avoid electrical shock?	\Box Are the electrode holder and welding cables secured?
Are your PPE, handpiece, and work leads in good, working	\Box Is the work area cleaned up and the tools put away?
condition?	□ Has defective equipment been reported to maintenance
□ Is the immediate area closed off to protect other workers from flashes?	department? If you have questions about the safe operating procedures of plasma cutters, please contact your local West Bend Mutual Insurance loss control consultant.
□ Is ventilation to the plasma cutter in good working condition?	
☐ Are work leads and hoses secured to prevent the trip and fall hazard?	
□ Is all required PPE available and equipped?	

