

**University of Tennessee Knoxville**
**Job Hazard Analysis and Personal Protective Equipment Assessment**

Instructions for Supervisors: Please review all applicable Job Hazard Analysis forms with your employee. The forms are categorized by job task.

Hazard Analysis:

**Arc Welder, Electric**

<b>Task</b>	<b>Hazard</b>	<b>Cause</b>	<b>Prevention</b>
General Use	Inhalation	Hazardous fumes, gases, dusts	Appropriate ventilation, as required appropriate respirators
	Eye Injury	Projectiles, fumes, dusts, flashes	Helmets, goggles, appropriate welders screens
	Trauma	Projectiles, burns	Situational awareness, Flame Retardant clothing, switch guards
	Foot Injury	Drop object on foot	Wear safety shoes
	Fire	Heat, sparks, slag	Appropriate placed fire extinguisher, remove all combustibles and fire hazards from welding area
	Electrical Shock	Improper grounding, improper operations and maintenance, improper switching device	Lockout/tagout, proper grounding of secondary and case portable welding transformers, manufacturer's instructions strictly followed, proper switching for shutting down machine

**PPE Required:**

- Eye Safety Shield/Helmet with Filter Lens protective Clothing\*
- Full sleeves, no front pockets, no cuffs, shirt left outside of trousers, made of clean Flame Retardant materials
- Flame Retardant Gauntlet Gloves
- Safety Shoes/Boots disposable respirator (optional)
- Goggles/Safety Glasses

This document serves as the Personal Protective Equipment (PPE) Certification document required to satisfy the federal requirements of the Occupational Safety and Health Administration (OSHA) Standard, 29 CFR 1910.132 Subpart I- Personal Protective Equipment. This certifies that a hazard assessment of workplace hazards has been performed. Signatures for the certification are on file in the Environmental Health and Safety Department office. For questions and more information about this document, please contact EHS at 974-5084 or safety @utk.edu.

*April W. Case*

EHS Team Leader General Safety

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