JOB SAFETY ANALYSIS FORM

JOB SAFETY ANALYSIS	Job Title: **Portable Gasoline Driven Arc Welder**	JSA Number	DATE:	☐ NEW ☐REVISED Page: of
	TITLE OF PERSON WHO DOES JOB:	SUPERVISOR:	ANALYSIS BY: REVIEWED BY: APPROVED BY:	
	PLANT LOCATION:	DEPARTMENT:		

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED ACTION OR PROCEDURE
General Use	Inhalation from hazardous fumes, gases and dusts	Appropriate ventilation, respirator as required.
	Eye injury from projectiles, fumes, dusts and flashes	Helmet, goggles/safety glasses, appropriate non-combustible or flameproof screens
	Trauma from projectiles and burns	Situational awareness, PPE, protection clothing and switch guards.
	Foot injury from dropped object on foot	Wear steel toed boots
	Fire from heat, sparks and slag	Appropriate placed fire extinguishers, remove all combustibles and fire hazards from machine area.
	Electric shock from 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 startup/shutting down machine

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Pre-Start Checklist:

- Perform pre-operational inspection and document inspection.

PPE Required

- Safety shield/helmet with filter lens.
- Fire resistant gauntlet gloves.
- Safety shoes/boots.
- Protective clothing (full sleeves, no front pockets, no cuffs, shirt left outside of trousers, made of clean fire-resistant materials).
- Respirator (if needed).
- Safety glasses with side shields or goggles.

Equipment Procedures/Requirements:

- Before cutting or welding is permitted the area shall be inspected by an individual responsible for authorizing cutting and welding operations.
- Operate equipment in strict accordance with manufacturer's instructions.
- Employees' assigned to operate equipment will be familiar with OSHA requirements outlined in 29 CFR 1910.252 and 1910.254.
- Only authorized users can operate equipment.
- Connections and machine grounding shall be checked prior to use.
- Report any observed defect or safety hazard to your supervisor immediately.
- Where any object handled would possibly cause injury to feet if dropped, safety shoes/boots will be worn.
- Where any object handled could possibly cause cuts, punctures or abrasions to hands, appropriate gloves will be worn. (Exception: where rotating machinery presents a greater hazard of entangling gloves, they are optional with written justification).
- Keep hands, hair and loose clothing clear of all moving parts.

Additional Precautions for Fuel Powered Engines:

- Always operate in an open well-ventilated area or vent the engine exhaust directly outdoors.
- Never fuel the engine while running or in the presence of open flame.
- Wipe up spilled fuel immediately and wait for fumes to disperse before starting the engine.
- Never remove the radiator pressure cap from liquid cooled engines while they are hot to prevent scalding.
- Stop the engine before performing any maintenance or troubleshooting. The ignition system should be disabled to prevent accidental start of the engine.
- Keep all guards and shields in place.
- Keep hands, hair and loose clothing away from moving parts.