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Environmental Health & Safety

Design, Facilities & Safety Services

Issue Date: Review Date: 10/01/21

Procedure No.: SS-MIG-WLD

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WARNING!

Do not use this machine unless an instructor or shop supervisor has instructed you in the safe use and operation and has authorized you to operate this equipment!

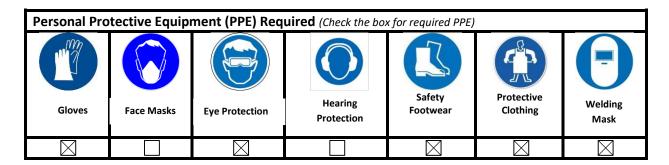
Equipment/Machine: MIG WELDER

Make/Model Number:

Description of Work: Using a Metal Inert Gas (MIG) welder

<u>Potential Hazards</u>: Fire & electrical hazard with the potential to cause harm through exposure to

heat, projectiles, sparks, sharp objects, electric shock, fumes, radiation and flame.



Safe Work Procedure Checklist:

1. PRE-Operation:

- Task (e.g. Drawings, instructions, specifications etc) is clearly understood.
- Make sure the work area is clean and clear of grease, oil and any other flammable materials.
- Keep the welding equipment, work area and gloves dry to avoid electric shocks.
- Make sure the gloves, welding gun and work leads are in good condition.
- Check that other work areas are protected from flash.
- Make sure appropriate ventilation is in place prior to use.
- Make sure appropriate PPE is worn.
- Identify ON/OFF switch and emergency stop button (if applicable).

2. Operation:

- Keep hands clear of work piece and away from electrode.
- Make sure machine is correctly set up for current, voltage, wire feed and gas flow.
- Make sure work return cables make firm contact to provide a good electrical connection.
- Never leave the welder running unattended.

POST-Operation:

- Switch off machine and fume extraction (if relevant).
- Close gas cylinder valve.
- Hang up welding gun and welding cables.