

Manual Metal Arc Welder

DO NOT use this machine unless a teacher has instructed you in its safe use and operation and has given you permission.

REMEMBER

PERSONAL PROTECTIVE EQUIPMENT:



Safety glasses must be worn at all times in addition to welding mask.



Sturdy footwear with rubber soles must be worn.



Respiratory protection devices may be required for some operations.



Rings and jewellery must not be worn.



Long and loose hair must be contained.



Close fitting/protective clothing to cover arms and legs must be worn.



Oil free leather gloves and spats must be worn when welding.



A welding mask with correct grade lens for GMAW must be worn.

This Safety Operating Procedure does not necessarily cover all possible hazards associated with the machine and should be used in conjunction with other references. It is designed to be used as an adjunct to teaching Safety Procedures and to act as a reminder to users prior to machine use.

Date of last review

Signature

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SAFETY OPERATING PROCEDURES

PRE-OPERATIONAL SAFETY CHECKS

1. Ensure no slip/trip hazards are present in workspaces and walkways.
2. Ensure the work area is clean and clear of grease, oil, and any flammable materials.
3. Keep the welding equipment and work area dry to avoid electric shocks.
4. Ensure the gloves are dry and free from holes to avoid electric shocks.
5. Ensure electrode holder and work leads are in good condition.
6. Ensure fume extraction unit is on before beginning welding operation.
7. Ensure other people are protected from flashes by closing curtain to welding bay or by erecting screens.
8. Faulty equipment must not be used. Immediately report suspect equipment.

OPERATIONAL SAFETY CHECKS

1. Keep welding leads as short as possible and coil them to minimise inductance.
2. Ensure the electrode holder has no electrode in it before turning on the welding machine.
3. Ensure current is correctly set according to electrode selection.
4. Do not use bare hands and never wrap electrode leads around yourself.
5. When welding is finished or interrupted, remove electrode stub from holder and switch off power source.

HOUSEKEEPING

1. Switch off the machine and fume extraction.
2. Hang up electrode holder and welding cables and leave the work area in a safe, clean and tidy state.

POTENTIAL HAZARDS

- Electric shock
- Fume
- Radiation burns to eyes or body
- Body burns due to hot or molten materials
- Flying sparks
- Fire

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