Safe Operating Procedure

SPW
SOUTH PACIFIC WELDING GROUP PTY LTD

PPE Required

Electric Welders

MS10-3.9.17.2_SOP_Elect Welders-SPW

General Safety Instructions

- Complete pre-start checklist
- Read Manufacturers Operation Manual (www.spwgroup.com.au)
- Report any faults or damage to SPW 1300WELDER (1300 935337)
- Do not wear loose clothing or jewellery
- Do not operate equipment near pedestrians or people
- Do not operate without the appropriate PPE as detailed
- Do not operate equipment under the influence of drugs or alcohol

Risk Assessment

- Assess the immediate work area for any hazards
- Control or eliminate all the risks associated with the hazards
- Hazards to check for that may require risk control-

❏ Overhead power lines ❏ Working at height
❏ Digging ❏ Falling objects
❏ Confined space ❏ High Voltage
❏ Traffic & moving machinery ❏ Any stored energy
❏ Stored energy – air, hydraulic, electricity, pressure

General Electricity Safety

- Ensure all electrical equipment has a current test tag within 3 months
- Do not operate equipment in or around water or damp environments
- It is recommended to use a safety switch to power this equipment
- Ensure the power lead is well stowed and do not present trip hazards
- Isolate the power by removing the plug prior to performing any work on the equipment including prior to changing leads or tools or bits

Operating Safety Instructions

Operators should familiarise themselves with the equipment	Only qualified personnel to perform maintenance and repairs
Welding machines emit Electric and Magnetic fields (EMF) that may interfere with pacemakers, welders having pacemakers should consult their physician before welding	Beware of Electric and Magnetic fields (EMF) •Route the electrode and work cable close together •Never coil leads around your body or body parts •Connect the work piece as close to the weld as possible •Do not work near the welding power source
Welding machines produce electrical current that harm or kill •Always insulate yourself from the welding circuit •Never touch the live parts •Wear dry clothes rubber soled footwear and dry gloves without holes •Always replace damaged insulation like electrode holders	When working in hazardous conditions such as damp, wet locations, in confined spaces, cramped positions, on metal structures it is recommended to •Use welders with wire feeders so the electrode wire is only live when the trigger is pressed •Or use stick welders with Voltage Reduction Devices (VRD) •Perform a Job Safety Analysis (JSA)
Always wear appropriate clothing as Arc Rays can cause significant burns in very short times	Only use flame resistant clothing when welding
Always use arc screens to protect people and objects nearby from Arc Rays and sparks. Ensure no flammable substances nearby	Always wear the appropriate welding lenses when welding for the type of welding being performed. Refer ANSI Z87
Welding fumes are dangerous and can vary depending on the welding consumable being used. Always wear breathing apparatus or weld in well ventilated areas. Keep exposure as low as possible and below Threshold Limit Values (TLV)	Always read the MSDS of the welding consumable being used to familiarise yourself with the appropriate protection required and keep. Precautions should also be taken when welding Galvanised steel
When using power tools of electrical appliances in the auxiliary outlets ensure the equipment is safe and has current test tags	Do not lift machine if lift bail is damaged and do not operate machine whilst suspended from the lift bail.
Do not weld or cut pipes, tanks or vessels that contain pressure or flammable substances	Always turn off welder prior to making any welding lead connections
Refer to the operation manual for more details and specific instructions on connections, weights and operation specifications	Do not block airflow to machine as it can cause overheating
When Carbon/Air Arc Gouging beware of high currents and high amounts of molten metal discharge. Wear additional PPE including hearing protection	When Plasma cutting observe all instructions above