

Ships Service

Safety Checklist for Welding & Related Thermal Processes

References: Code of Safe Working Practices for Merchant Seafarers (COSWP, UK), OCIMF SIRE 2.0, RIGHTSHIP RISQ 2.0

Do not operate equipment for welding or related thermal processes unless you are thoroughly familiar with the process, equipment, and the rules and regulations; including the proper use of accessories, e.g. fire extinguishers. Preparation for hot-work onboard should include, but not be limited to the points below to ensure safe operation.



- Wear proper long-sleeved boiler/leather suit with safety shoes and use appropriate head, eye, and face protection (helmet, shield,
- Use an appropriate respirator or fume extraction unit to avoid inhaling fumes and dust from the welding process.*



The International Agency for Research on Cancer (IARC) under WHO has classified welding fumes and UV radiation from welding as Group 1 carcinogens, the agency's designation for agents that carry sufficient evidence of carcinogenicity in humans (2017). In May 2019, MCA UK issued HSE Safety Alert: Change in Enforcement for Mild Steel Welding Fume Bulletin No: STSU1 2019 and

- Ensure that all relevant checklists, certificates and permits for hot work have been issued before welding.

- Switch off the welding machine and gas supply when not in use and remove the stick electrode from the electrode holder and store
- Do not leave the workplace unattended and conduct regular interval inspections to eliminate risk of fire remains.
- Secure and store gas cylinders upright in storage rooms above deck. Gas cylinders must be fitted with valve caps and use appropriate
- Acetylene and oxygen gas regulators and torch end for long lengths of gas hoses must be fitted with flashback arrestors.

- Ensure correct colour coding for gas hoses (red for acetylene, blue for oxygen, black for shielding gases and filtered air).

- Use only approved and compliant welding power sources (max 25 VAC or max 70 VDC). Using a Voltage Reduction Device (VRD) to
- Torches and electrode holders must be fully insulated and in good condition and work lead connection (return) must be clamped as
- Do not perform welding in 'wet' conditions and always insulate yourself from the work and ground.

