Ensure good housekeeping practices
- Tidy up the workplace and remove any flammable materials, liquids and gases from its surroundings
- Shield the workplace to protect others from sparks and radiation from the arc
- Post a warning sign when welding is in progress

Maintain safe welding procedures
- Ensure that all relevant checklists, certificates and permits for hot work have been issued before welding
- Work location:
  - Outside of workshop: welder accompanied by assistant
  - Within a confined space: assistant located outside, within welder's view and can rapidly cut off gas and power supply
- Ensure proper ventilation and availability of firefighting equipment within the workplace
- Use special fume extraction equipment if required
- Never use acetylene or oxygen to blow away dust from yourself or the workplace
- Always switch off the welding machine and close off the gas supply when not in use, even during short breaks. Remove the stick electrode from electrode holder
- Do not leave the work place unattended
- Conduct regular interval inspections to ensure no risk of fire remains after welding

Safe handling of all gas cylinders onboard during use and transportation
- Store gas cylinders in suitable storage rooms above deck and secure them properly in upright position
- Ensure that acetylene and oxygen regulators are fitted with flashback arrestors
- Check that hoses and all gas connections are in good condition, without leaks and damages
- Ensure the correct colour coding for the gas in hoses (red for acetylene, blue for oxygen, black for shielding gases and filtered air)
- Ensure that gas cylinders are fitted with valve caps and use appropriate cylinder trolleys for the transport of cylinders
- Use of gas distribution systems is recommended to increase safety and reduce the need for transporting cylinders around the ship
- Never use:
  - oil or grease in connection with welding gases
  - alloys containing more than 65% copper or 45% silver in connection with acetylene

Prevent electrical hazards
- Never touch electrically live parts (e.g. welding electrode holder) without being properly insulated
- Do not perform welding in 'wet' conditions and always insulate yourself from the work and ground
- Check that power sources function correctly according to relevant regulations and be familiar with the operating instructions
- Ensure that torches and electrode holders are in good working order and are fully insulated
- Ensure the work lead connection is clamped close to where you are welding

Use the appropriate Personal Protective Equipment (PPE)
- Proper long-sleeved boiler suit with safety shoes must be worn
- Do not wear clothes of highly combustible materials or clothes that are wet
- Do not carry combustible material (e.g. matches, lighters, oil rags)
- Use head, eye and face protection (helmet, shield, goggles) according to job and ensure that filter glasses are of the correct shade
- Use a dust filter or breathing apparatus to avoid inhaling fumes and dust from the welding process

For more information, see the suggested Unitor™ PPE for welding.