

## Overview

This standard is about manually controlled welding of steel fabrications to meet the specification in engineering construction.

You will need to be able to produce joints as specified using the appropriate welding technique and to the required quality and dimensional accuracy whilst adhering to health, safety and environmental, legislation, regulations and safe working practices.

In the context of this standard, your responsibility is to interpret and work within given specifications, selecting techniques and making variations to achieve the best possible result. In some cases, you may still be required to refer to others for final authorisation, even though you remain responsible for identifying and implementing decisions.

### **This standard is for**

This standard is for Platers.

Join materials by a manually controlled welding process

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## Performance criteria

*You must be able to:*

1. work safely at all times, comply with health and safety, environmental and other relevant legislation, regulations, guidelines and local rules or procedures
2. ensure that the work environment, materials, tools and equipment are correctly prepared for the work activities to be undertaken
3. follow the relevant welding procedure specifications and quality standards
4. ensure that the condition of the welding equipment and consumables meet the requirements for the task
5. ensure that the joint preparation complies with the specification
6. produce joints as specified using the correct welding process
7. shut down equipment to a safe condition on completion of welding activities
8. check that the joint is complete and to the required specification, then follow the required handover procedure
9. complete records in line with procedures
10. reinstate the work area
11. deal promptly and effectively with problems within your control and report those that have been and those that cannot be solved

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## Knowledge and understanding

*You need to know and understand:*

1. relevant legislative, regulatory and local requirements or procedures and safe working practices including your responsibilities with regards to reporting lines and procedures
2. preparation and reinstatement requirements in respect of the work area, components, material, and equipment, and the possible consequences of incorrect actions in these areas
3. the welding processes and equipment
4. relevant engineering drawings, related specifications and quality standards
5. materials and their welding characteristics
6. techniques for using welding equipment including:
  1. assembly of welding equipment
  2. operation checks
  3. equipment setting operating and care procedures
7. material handling, preparation and finishing methods
8. quality control and test procedures for the detection of defects in joints and what to do if any are found
9. related quality control documentation procedures
10. tool and equipment control: the correct use of relevant tools and equipment and your individual responsibility for the use, care and security of those you use

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**Scope/range****Work environment**

Typical work environments could include:

- Engineering construction sites
- Controlled operations
- Offshore installations
- Maintenance sites
- Nuclear sites
- Repair sites

Work environments may be open or restricted spaces:

- At height
- Confined spaces
- Control rooms
- Controlled operational and offshore installations
- Designated work areas
- Explosive atmospheres
- Existing plants and structures
- Fabrication workshops
- In plant rooms
- Inside structures, system and plant
- On access structures (scaffold)
- On open structures
- Onshore and offshore installations
- Shafts
- Shipyards
- Tunnels

**Reinstate the work area**

This term could include:

- Returning the work area to a safe condition
- Correctly disposing of waste materials
- Storing of re-usable materials, consumables and equipment in accordance with appropriate procedures
- Completing all necessary documentation
- Removal of barriers
- Sweeping up

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**Relevant Occupations** Plater

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**Suite** Fabricating Steel Structures (Plating)

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