

Overview

This standard is about preparing steel structure elements and assemblies for moving, lifting and positioning in engineering construction.

You will need to be able to check the equipment to be used is capable of moving, lifting and positioning the structure elements and assemblies safely and ensure that they are secured and protected before moving operations start whilst adhering to Health and safety 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 expected to refer to others for final authorisation, even though you remain responsible for identifying and implementing decisions.

Who this standard is for

This standard is for steel erectors

Performance criteria

You must be able to:

1. work safely at all times, complying with health, safety, environmental and other relevant legislation, regulations, guidelines and local rules or procedures
2. ensure that the **work environment**, material and equipment are suitably prepared for the work activities to be undertaken
3. establish the weight of the load to be moved
4. determine the method and techniques for moving or lifting the steel structures and the equipment required
5. determine a suitable route for moving the load minimising the risk to people and property
6. obtain the required steel section(s) and check it for quantity, quality and orientation
7. determine the correct sequence for moving, lifting and positioning the loads and how to prepare them for moving
8. select, check and attach the equipment to be used, confirming it is capable of moving the load safely
9. carry out preparations including protecting the load and equipment from damage
10. secure and protect the load before moving operations start
11. **reinstate the work area**
12. deal promptly and effectively with problems within your control and report those that have been and that cannot be solved

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 in your working environment
2. preparation and reinstatement requirements in respect of the work area, material, and equipment, and the possible consequences of incorrect actions in these areas
3. methods of confirming the weight of the load
4. how to establish the weight of a load and its centre of gravity
5. slinging lifting and moving methods and techniques
6. route planning methods and techniques
7. steel structure handling methods and techniques
8. types of equipment used for moving, lifting and positioning steel structures and the care and control procedures
9. the importance of and how to correctly identify steel sections and their orientation and why this is important
10. tool, equipment and drawing control: the correct use of relevant tools, equipment and drawings and your individual responsibility for the use, care and security of those you use

Scope/range**Work environment**

Typical work environments could include:

- engineering construction sites
- controlled operations
- offshore installations
- maintenance sites
- nuclear sites
- repair sites

working environments may be open or restricted spaces:

- at height
- confined spaces
- control rooms
- 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:

- removing barriers
- maintain good housekeeping practices
- correctly disposal of waste materials in accordance with appropriate procedures
- storage of reusable materials, consumables and equipment in accordance with appropriate procedures
- completion of all necessary documentation

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Prepare steel structure elements and assemblies for moving, lifting and positioning



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Relevant Occupations Steel Erector

Suite Constructing Capital Plant Steel Structures - Erecting

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