

## Overview

This standard is about being able to lift, position and install construction elements and assemblies in the engineering construction industry. You will need to determine the objective and how it is to be achieved taking into consideration the type of construction elements and assemblies to be lifted, positioned and secured in line with the specification 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 riggers.

## 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**, and materials and equipment are suitably prepared for the work activities to be undertaken
3. assess the **work circumstances** and the related technical implications in relation to the task specifications and drawings
4. identify, select and conduct pre-use checks on the tools and equipment for the installation operations
5. attach the appropriate handling equipment securely to the construction elements or assemblies, using approved methods to allow for ease of alignment and connection
6. confirm that the prepared load is secure before moving
7. use approved installation methods and techniques to include:
  - slinging
  - lifting
  - signalling
8. position the moving equipment so that the construction elements or assemblies are appropriately aligned and supported
9. install, position and secure the construction elements/assemblies, and components as specified
10. securely fix any necessary temporary support facilities
11. release the load safely in its intended final location
12. ensure all the necessary connections are complete
13. check the installation is complete and that all components are free from damage
14. follow quality control documentation procedures
15. take appropriate measures to protect the finished construction
16. **reinstate the work area**
17. deal promptly and effectively with problems within your control and report those that have been and those 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 regard to reporting lines and procedures
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. the types and application of construction elements and assemblies the methods of construction element identification and orientation before assembly
4. the approved installation methods and techniques used to align, position and connect construction elements & assemblies
5. methods and techniques for;
  - slinging
  - lifting
  - signalling
6. types of equipment used for holding loads in the required positions
7. methods of providing temporary support during installation and the related limiting factors
8. related quality control documentation procedures
9. 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

Work 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

### Work circumstances

In the context of this standard, assessing the work circumstances means considering:

- whether or not the site is operational
- the proximity to live plant
- if multiple activities are being undertaken in the same location
- the presence of flammable or explosive atmospheres
- the status of weather conditions
- the proximity to existing structures

### **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

## Position and install construction elements and assemblies

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**Relevant Occupations** Rigger

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**Suite** Moving Loads

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