

Overview

This standard is about determining the technical and resource requirements to achieve steel erecting objectives in engineering construction.

You will need to be able to identify and specify technical and resource requirements that could deliver the objectives and select the most appropriate ones to achieve the task 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. interpret the specifications in relation to:
 - technical requirements
 - resource requirements
4. Identify and specify the most appropriate technical and resource requirements to meet the objectives including:
 - resources, tools and equipment
 - skill sets and appropriately authorised personnel
 - individual roles and responsibilities
 - communication methods/techniques
 - work schedules
 - safety procedures
 - lifting equipment specifications
 - lift plans
 - method statement
5. assess the work methods and techniques for their suitability and technical feasibility to meet the objectives
6. report and advise on the chosen technical and resource requirements, clearly stating the requirements that cannot be achieved
7. ensure agreement of the technical and resource requirements in line with company processes
8. effectively communicate the agreed technical and resource requirements to the lifting team before the lifting operations start
9. 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 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. how to identify technical and resource requirements from all available information sources
4. the implications of working at height
5. information to be obtained and communicated from work objectives in relation to:
 - resources, tools and equipment
 - skill set and appropriately authorised personnel
 - individual roles and responsibilities
 - communication methods and techniques
 - work schedules
 - lifting equipment specifications
 - lift plans
 - method statements
6. the implications of various characteristics of the work environment such as confined spaces, live plant and weather conditions
7. planning methods and techniques commonly used
8. methods of communicating technical and resource information
9. related documentation procedures
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

Work environments may be open or restricted spaces:

- at height
- confined spaces
- control rooms
- designated work areas
- explosive atmospheres
- in plant rooms
- inside structures, system and plant
- on access structures (scaffold)
- on open structures
- existing plants and structures
- fabrication workshops
- onshore and offshore installations
- shafts
- shipyards
- tunnels

Developed by ECITB

Version Number 3

Date Approved June 2020

Indicative Review Date November 2024

Validity Current

Status Original

Originating Organisation Engineering Construction Industry Training Board

Original URN NE09ECRS3.03

Relevant Occupations Steel Erector

Suite Constructing Capital Plant Steel Structures - Erecting

Keywords erecting; problem solving; snagging; technical requirements; drawings; structural steel loads; steelwork; specification; engineering; construction;
