Overview

This standard is about moving loads over a planned route to its final destination in engineering construction.

You will need to determine the objective and how it is to be achieved taking into consideration of the plan and the type of load to be moved and the environmental considerations 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.
ECIML02
Moving loads

Performance criteria

You must be able to:

P1 work safely at all times, complying with health and safety and other relevant legislation, regulations, guidelines and local rules or procedures

P2 ensure that the work environment, material, tools and equipment are suitably prepared for the work activities to be undertaken

P3 position the moving equipment so that the weight of the load is evenly distributed

P4 attach the appropriate load moving equipment securely to the load

P5 confirm that the load is secure before moving

P6 move the load over the selected, approved route

P7 position and release the load safely in its designated lay down area.

P8 reinstate the work area

P9 deal promptly and effectively with problems within your control and report those that cannot be solved
ECI/M02 Moving loads

Knowledge and understanding

You need to know and understand:

K1 relevant legislative, regulatory and local requirements or procedures
K2 preparation and reinstatement requirements for moving loads in respect of the work area, material and equipment, and the possible consequences of incorrect actions in these areas
K3 management of change and deviation from lift plan
K4 the tools, terminology and practices for moving loads
K5 lifting, moving and handling equipment methods and techniques
K6 methods and techniques used to determine the weight of loads
K7 slinging and lifting methods and techniques
  K7.1 determining slinging angles
  K7.2 applying slings and chains
K8 methods and techniques used to move loads
K9 route planning methods and techniques
K10 your responsibilities for ensuring the care and security of tools and equipment that you use
K11 your responsibilities with regard to the reporting lines and procedures in your working environment
Additional Information

Scope/range

Work environment

Typical work environments could include:

1. at height
2. confined spaces
3. controlled operational and offshore installations
4. designated work areas
5. engineering construction sites
6. existing plants and structures
7. fabrication workshops
8. nuclear power stations
9. onshore and offshore installations
10. potential explosive atmospheres
11. shafts
12. shipyards
13. tunnels
14. working on access structures (scaffold)
15. working inside plant and systems

Load

Typical loads could include:

1. plant and equipment
2. platework assemblies
3. preformed platework
4. structural steelwork
5. structural steelwork assemblies

Load characteristics you may need to consider could include:

6. fragile or robust
7. obvious lifting points
8. regular weight distribution
9. awkward shape/lifting points not obvious
10. uneven weight distribution
Moving loads

**Equipment**
Typical equipment could include:
1. cranes
2. forklift truck
3. jacks
4. manually operated lifting aids e.g. block and tackle
5. rollers
6. ropes
7. slings
8. skids/skates
9. trolleys
10. winches and hoists
11. wire ropes

**Reinstate the work area**
This term could include:
1. returning the work area to a safe condition
2. correctly disposing of waste materials
3. storage of reusable materials, consumables and equipment in accordance with appropriate procedures
4. completion of all necessary documentation

**Route planning methods and techniques**
This will include using a range of information which could include:
1. client requirements
2. lift plan
3. method statements
4. risk assessment
5. task analysis
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