

Overview

This standard identifies the competences you need to position and secure marine access structures, in accordance with approved procedures. You will be required to position and secure the access structures, in compliance with health and safety requirements and Lifting Operations and Lifting Equipment Regulations (LOLER). The access structures to be set up will include such items as gangways, platforms, outer-side platforms, under-side platforms, hanging platforms and access ladders. You will be expected to use safe and appropriate techniques to set up, position, level, align and secure the structures in position.

Your responsibilities will require you to comply with health and safety regulations and your organisation's policies and procedures for the setting up of the access structures. You will be required to report any problems with the positioning and securing activities that you cannot resolve, or which are outside your defined authority, to the relevant people. You will be expected to work to instructions, either alone or in conjunction with others, taking personal responsibility for your own actions and for the quality and accuracy of the work that you carry out.

Your underpinning knowledge will be sufficient to provide a sound basis for your work and will provide an informed approach to applying the required positioning and securing procedures for marine access structures. You will have an understanding of the positioning and securing procedures used and their application and will know about the positioning and securing requirements, equipment and materials to be used, in sufficient depth to provide a sound basis for carrying out the activities to the required standards.

You will understand the safety precautions required when carrying out the positioning and securing operations. You will be required to demonstrate safe working practices throughout and will understand the responsibility you owe to yourself and others in the workplace.

Performance criteria

You must be able to:

1. work safely at all times, complying with health and safety and other relevant regulations, directives and guidelines
2. identify the most appropriate location for the access structure and prepare the site for the installation
3. select the most appropriate access structures to ensure that safety regulations will be met
4. position and secure the access structure components in the correct sequence
5. check that the erected structures are safe, secure, stable and ready for use
6. complete relevant paperwork, in accordance with organisational requirements
7. deal promptly and effectively with problems within your control and report those that cannot be solved
8. inform the appropriate people when the installation is completed and ready for use

Knowledge and understanding

You need to know and understand:

1. the specific safety precautions to be taken when positioning and securing access structures, and the need for ensuring the load security (such as general workshop and site safety, appropriate personal protective equipment (PPE), protecting other workers during the lifting operations; accident procedure; statutory regulations, risk assessment procedures and COSHH regulations)
2. the hazards associated with positioning and securing access structures, and how they can be minimised
3. an understanding of the Approved Code of Practice (ACOP) for safe use of lifting equipment, and Lifting Operation and Lifting Equipment Regulations (LOLER)
4. the specific requirements for the marking of lifting equipment and the specific method used in the organisation in which you are working
5. the various types of access structures used in the marine environment (such as gangways, platforms, outer-side platforms, under-side platforms, hanging platforms and access ladders)
6. the methods of assembling the access structures and the equipment that is used
7. the range of equipment that is to be used for lifting the access structures (such as hand and power operated cranes, winches, pulling equipment)
8. the lifting equipment accessories that are to be used (such as slings, chains, wire ropes, eye bolts)
9. checks to be made on the lifting equipment prior to use and what you should look for
10. what to do should any defective equipment be identified
11. how to determine the approximate weight of the load to be moved
12. factors which affect the selection of the lifting equipment and lifting accessories (such as weight, type of load operating environment)
13. how to check that the lifting equipment is capable of lifting the load to be moved
14. how to determine the centre of gravity of the load and how to determine suitable slings and lifting points
15. how to locate and position the access structures and the range of equipment that can be used (such as powered lifts, sky climbers, hanging baskets, slings/wire ropes, harnesses, hydraulic jacks/skids, pulley blocks, man-riding baskets and chain blocks)
16. the need to make allowances for the rise and fall of water levels due to tidal

effects

17. how to secure the access structures and the equipment that can be used

18. problems that can occur with the positioning and securing operations, and how they can be avoided

19. the extent of your own responsibility and whom you should report to if you have problems that you cannot resolve

Scope/range related to performance criteria

1.

Ensure that the access structure, lifting and securing components are in a usable condition, by checking **all** of the following:

- 1.1 the access structure being used is compliant with health and safety requirements (LOLER)
- 1.2 all wires/slings are free from defect
- 1.3 the lifting equipment is inspected and checked for sufficient SWL/WLL (safe working load or working load limit) for the operation
- 1.4 the identification number and SWL/WLL are clearly marked and tagged on the structure and equipment selected
- 1.5 the access structure and securing equipment is suitable for the activity and environment of the work
- 1.6 allowances have been made for rise and fall of tides (where applicable)

2.

Position four of the following types of access structures, using the correct sequence:

- 2.1 gangways
- 2.2 hanging platforms
- 2.3 platforms
- 2.4 access ladders
- 2.5 outer-side platforms
- 2.6 under-side platforms
- 2.7 other specific access structure

3.

Use four of the following lifting and moving equipment to position the access structure:

- 3.1 cranes
- 3.2 pulling appliances
- 3.3 winches
- 3.4 block combinations
- 3.5 powered lifting equipment
- 3.6 lifting appliances
- 3.7 other specific equipment

4.

Locate and position the access structures, using five of the following:

- 4.1 powered lifts
- 4.2 hydraulic jacks/skids
- 4.3 sky climbers
- 4.4 pulley blocks
- 4.5 hanging baskets

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- 4.6 man-riding baskets
- 4.7 slings/wire ropes
- 4.8 chain blocks
- 4.9 harnesses

5.

Secure the erected access structures, using three of the following:

- 5.1 guide wires/ropes
- 5.2 eye bolts/shackles
- 5.3 hanging frames
- 5.4 stays/stiffeners
- 5.5 pad eyes
- 5.6 securing lugs
- 5.7 bottle screw

6.

Complete the relevant paperwork, to include one from the following:

- 6.1 build records
- 6.2 log cards
- 6.3 job cards
- 6.4 quality documentation
- 6.5 other specific recording method

Behaviours

You will be able to apply the appropriate behaviours required in the workplace to meet the job profile and overall company objectives, such as:

- strong work ethic
- positive attitude
- team player
- dependability
- responsibility
- honesty
- integrity
- motivation
- commitment

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