

NOS PSSSPO105 Plan lifting operations in ports

Unit PSSSPO105.2 Plan vessel loading and discharge within a port environment (SQA Unit Code-H7A0 04)

Performance Criteria

You must be able to

Plan vessel loading and discharge within a port environment

1. obtain all relevant information required to establish the characteristics of the vessels to be loaded/discharged, including where applicable, any loading/discharge plans prepared by vessel staff
2. address any problems in obtaining suitable and sufficient information
3. assess the requirements for load handling and/or lifting equipment, as well as appropriate safety, anti-pollution and waste disposal equipment
4. identify port and vessel berthing equipment, and appropriate method(s) of loading/discharging the vessel
5. assess the load characteristics and determine correctly the nature of any specialist services that may be required
6. identify and confirm the availability of all required facilities and resources, referring any difficulties to the relevant person
7. prepare vessel loading/discharge plans, identifying potential areas of uncertainty and agreeing contingency plans designed to address these
8. agree own plans with all relevant people, including appropriate vessel staff
9. ensure that the plan sets out the systems for loading and discharging loads, taking into account the characteristics of the vessel and the load, including, where relevant, the presence of any dangerous goods, and the resources available
10. communicate the plan to all relevant people, and in sufficient time to meet operational needs, agreeing individual actions and responsibilities with all relevant people

Knowledge and understanding

You need to know and understand

1. the legal responsibilities for maintaining own and others' health and safety in your workplace
2. the requirements placed upon the individual and the organisation by current legislation, directions and bye-laws related to lifting and storage operations in ports
3. current industry guidance, relating to lifting operations in ports
4. own organisation's policies, procedures and working practices that relate to lifting and storage operations in ports including those relating to loading/unloading of: dangerous goods, vessels, vehicles and rail
5. the principle types of hazard and risk associated with lifting and storage operations in ports
6. the precautions appropriate for minimising the risks associated with lifting and storage operations in ports

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7. how to correctly wear, use and maintain personal protective equipment, relevant to lifting and storage operations in ports
8. how to locate, correctly use and maintain the principle types of safety and incident response equipment relevant lifting and storage operations in ports
9. the accident and emergency procedures of the organisation and individual roles and responsibilities, relevant to own area of operations, relating to lifting operations in ports
10. location of and how to operate alarm systems
11. procedures for contacting the emergency services
12. location of the approved escape routes and assembly points
13. own responsibilities for reporting accidents and emergencies
14. the limits of own responsibilities when planning and managing lifting operations
15. roles and responsibilities of others in own area of operations, relating to lifting operations in ports
16. the operating procedures, capabilities and limitations, of the principal types of lifting plant found in ports, procedures for checking lubricants and other fluids, and the importance of reporting any faults and defects
17. the principal characteristics of the main types of loads, including their nature and weight, and whether they are hazardous or non-hazardous
18. the factors that can affect the stability and security of loads when being transferred, and how these can be affected by environmental conditions
19. the capabilities, including capacity and strength of the principal types of slinging and lashing materials and the implications of using defective or faulty materials
20. methods of safe slinging and unslinging loads, including angles of operations and what constitutes a safe working load
21. signalling procedures and techniques, including the interpretation of hand signals in slinging operations
22. how to interpret coding systems, relating to lifting equipment
23. how to interpret the information found on load labels and documentation
24. the typical cargo problems including those relating to stability
25. the different classifications of dangerous goods
26. the measurement systems typically used in own organisation, including: metric, imperial, volume, capacity, weight, TEU (twenty-foot equivalent units)
27. the roles and responsibilities of the relevant statutory authorities
28. the organisation's working methods and systems for receiving, handling and despatching cargo
29. the sources of information and assistance on lifting operations and how to interpret and evaluate the information
30. how to identify and clarify customer requirements
31. the principal vessel types, terminology and characteristics

Additional Information

This standard is applicable planning vessel loading and discharge and links with planning and implementing a lifting plan and planning load storage within a port environment.

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The performance criteria, knowledge and understanding requirements are related to the individual's own organisation, job role and area of operations. This includes but is not limited to the individual's immediate place of work. It extends to areas, operations and persons that may be impacted upon by the individual's activity in the workplace.

The performance criteria, knowledge and understanding requirements are specific to the: regulations, industry and other guidance recognised by the individual's employer, employing organisation's objectives, policies, procedures, and working practices; that relate to the elements covered in this standard.

The performance criteria, knowledge and understanding requirements are specific to the individual's own level of authority and responsibility.

Ports and the activities which take place there vary. Employers and any other duty holders must comply with the legal duties imposed on them by health and safety legislation, including the Health and Safety at Work Act 1974. This will also involve careful and continuing risk assessments to enable duty holders to plan, implement, manage and review policies and procedures which address the risks associated with the conduct of their business. The statutory duty of the employee to take reasonable care for the health and safety of themselves and other persons who may be affected by their acts or omissions at work and to cooperate with the employer with regard to the employer's health and safety duties, are an essential part of this standard.