

NOS PSSSPO106 Support port marine operations

Unit PSSSPO106.4 Provide information to assist the planning of vessel movements within the port area (SQA Unit Code-H7AA 04)

Performance Criteria

You must be able to

Provide information to assist the planning of vessel movements within the port area

1. obtain provisional arrival and sailing times and confirm these with the relevant vessels and their agents
2. maintain contact with vessels throughout their movement within own port's limits
3. monitor other traffic within own port, and assess their potential effect upon vessel movement and berthing operations, taking the relevant actions accordingly
4. use traffic monitoring equipment, in line with the manufacturer's instructions
5. obtain all relevant information regarding vessels being monitored, including appropriate details of their position, dimensions, loads, any defects, whether a pilot/tug is required, berth location and their time of arrival
6. ensure where a pilot or tug is required for vessel movement and berthing that one is available and address any difficulties
7. provide navigation warnings promptly at relevant locations and times
8. assess all information received from relevant sources regarding a vessel and its movement, and act upon it

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 port marine operations
3. current industry guidance, relating to port marine operations
4. own organisation's policies, procedures and working practices that relate to port marine operations
5. the principle types of hazard and risk associated with port marine operations
6. the precautions appropriate for minimising the risks associated with port marine operations
7. how to correctly wear, use and maintain personal protective equipment, relevant to port marine operations
8. how to locate, correctly use and maintain the principle types of safety and incident response equipment relevant to port marine operations
9. the accident and emergency procedures of the organisation and individual roles and responsibilities, relevant to port marine operations
10. location of and how to operate alarm systems

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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 involved in port marine operations
15. roles and responsibilities of others in own area of operations, relating to port marine operations
16. how to interpret organisational charts/plans and schedules for planned work
17. how to use tidal stream atlases, tide tables, Nautical Almanacs and pilot/sailing directions
18. how to plan, monitor and execute a passage plan and the impact of deviation and variation
19. the different types of course, including: true, magnetic, compass and gyro
20. how to use electronic navigation aids, as well as relevant non-electronic aids, and the limitations of navigation equipment
21. the use of buoyage systems and navigation lights
22. how to obtain and interpret weather information
23. how different types of adverse weather can impact upon craft movements within port areas
24. how to calculate tidal heights and ranges, and the local impact of tidal streams upon craft movements
25. handling characteristics of port craft relevant to own area of operations
26. how to operate equipment safely according to own organisation procedures, within own area of operations
27. the roles and responsibilities of those involved in facilitating vessel movement and their lines of communication to people, within own area of operations
28. the organisation's requirements relating to recording the movements of craft within the port
29. the effect of a craft's speed in relation to its impact upon other vessels, property and persons
30. the importance of reporting promptly any defects in the equipment, and the procedures for doing this
31. the local port geography and water conditions and their impact upon port marine activity navigating craft within own port (including: navigable channels and tides)
32. the types, functions and adjustments of communications equipment, and regulations governing radio transmission in both normal and emergency situations, and
33. the conditions likely to affect the transmission and reception of signals, relevant to own area of operations
34. how to read and understand tidal and chart information and schedules for planned work
35. the implications of adverse weather and tidal conditions on the depth of available water, moorings, including requirements for additional moorings and the movement and handling of vessels, within own port area
36. the organisation's operating limits for each berth, and their implications when planning mooring allocations
37. the importance of applying speed limits relating to berthing operations of larger vessels
38. the correct words and phrases used in describing vessels and their movements within a port area

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39. the dimensions, limitations and maintenance requirements of docks and approach channels, within own area of operations
40. how to obtain accurate information about a vessel and relate this to berthing availability within own area of operations
41. the basic principles of vessel navigation, movement and manoeuvring
42. the local marine environment, including the port area
43. the types, functions and adjustment of communications equipment, and the regulations governing radio transmission in both normal and emergency situations, and also the conditions likely to affect the transmission and reception of radio signals
44. how to record messages (both transmitted and received) and the format to use, relevant to own area of operations
45. the different types of assistance available to vessels mooring within the port area

Additional Information

This standard is applicable to assisting the planning of vessel movements within a port area and links to controlling and navigating port craft, contributing to the provision and control of moorings, coordinating and controlling vessel berthing operations.

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.