

NOS PSSSPO106 Support port marine operations

Unit PSSSPO106.1 Control and navigate port craft (SQA Unit Code-H79P 04)

Performance Criteria

You must be able to

Control and navigate port craft

1. check and confirm that operating systems are functioning properly before departing, including those controlling manoeuvring and navigation, addressing any faults
2. determine work schedules for the crew, establishing that activities have the correct manning and skills levels
3. allocate duties fairly and in line with own work schedules, taking into account skills, knowledge, experience and workloads
4. establish that the correct equipment is available for the crew to enable the intended activities to be undertaken, confirming that it is in good working order, and certificated where necessary
5. determine accurately the craft's position, course and speed using the available navigation equipment
6. ensure the craft's course and speed are set accurately, using available equipment and taking into account the current and required position, weather conditions, water depth and currents, tides and the craft's construction
7. ensure that the navigation equipment is set up and used, in line with recommended practice and the manufacturers' instructions, and the resultant information is interpreted correctly
8. communicate the craft's position, course, speed and destination, as required
9. manoeuvre the craft, taking action to avoid collisions where necessary and in line with the requirements of regulations and bye-laws
10. report any defective equipment to the relevant person or authority
11. monitor navigational broadcasts and warnings, taking the appropriate actions in response where necessary
12. ensure all records are maintained accurately

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

NOS PSSSPO106 Support port marine operations

Unit PSSSPO106.1 Control and navigate port craft (SQA Unit Code-H79P 04)

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
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 determine the position of own craft, using navigation equipment relevant to own area of operations, in both good and restricted visibility
27. how to operate equipment safely according to own organisation procedures, within own area of operations
28. the roles and responsibilities of those involved in facilitating vessel movement and their lines of communication to people, within own area of operations
29. the organisation's requirements relating to recording the movements of craft within the port
30. the effect of a craft's speed in relation to its impact upon other vessels, property and persons
31. the importance of reporting promptly any defects in the equipment, and the procedures for doing this
32. the local port geography and water conditions and their impact upon port marine activity navigating craft within own port (including: navigable channels and tides)
33. the types, functions and adjustments of communications equipment, and regulations governing radio transmission in both normal and emergency situations, and

NOS PSSSPO106 Support port marine operations

Unit PSSSPO106.1 Control and navigate port craft (SQA Unit Code-H79P 04)

34. the conditions likely to affect the transmission and reception of signals, relevant to own area of operations
35. how to read and understand tidal and chart information and schedules for planned work
36. assembly and fixing methods for moorings, and the limitations of specific types of mooring
37. the handling characteristics of craft relevant to own area of operations
38. 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
39. the organisation's operating limits for each berth, and their implications when planning mooring allocations
40. the importance of applying speed limits relating to berthing operations of larger vessels
41. the correct words and phrases used in describing vessels and their movements within a port area
42. hand signals for heave, slack, stop and secure
43. the methods for safe handling of mooring ropes, including how to dip ropes and to heave lines
44. the impact that motion and tidal range have upon berthing vessels, and where these apply within own area of operations
45. the basic principles of vessel navigation, movement and manoeuvring
46. 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
47. the local marine environment, including the port area relevant to own area of operations
48. the role and responsibilities of those involved in facilitating vessel movement and their lines of communication to people, relevant to own area of operations
49. The different types of assistance available to vessels mooring within the port area

Additional Information

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

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.

NOS PSSSPO106 Support port marine operations

Unit PSSSPO106.1 Control and navigate port craft (SQA Unit Code-H79P 04)

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.