Unit PSSPO104.2 Navigate port craft (SQA Unit Code-H782 04)

Performance Criteria

You must be able to

Navigate port craft

- 1. determine the craft's position, course and speed using the available navigation equipment
- set the craft's course and speed using the available equipment and taking into account the current and required position, weather conditions, water depth and currents, tides and the craft's construction
- 3. set up and use the available navigation equipment, in line with recommended practice and the manufacturers' instructions, and interpret the resultant information
- 4. communicate the craft's position, course, speed and destination as required
- 5. report any defective equipment
- 6. monitor navigational broadcasts and warnings, taking the appropriate actions in response where necessary

Knowledge and understanding

You need to know and understand

- 1. the legal responsibilities for maintaining own and others' health and safety in the workplace
- the requirements placed upon the individual and the organisation by current international and national legislation, port regulations and bye- laws, as they affect operations within ports, including the importance of the 'International Regulations for the Prevention of Collisions at Sea'
- 3. current industry guidance relevant to port vessel operations
- 4. own organisation's policies, procedures and working practices relevant to port vessel operations
- 5. the operating procedures, capabilities (including manoeuvring characteristics) and limitations of the types of vessel(s) within own area of operations
- 6. the effects of differing engine control positions on twin and single propeller craft
- 7. the effects of different rudder positions on the craft
- 8. the effects of using bow and stern thrusters, where these are fitted
- 9. how to use anchoring and mooring equipment
- 10. the importance of keeping a safe lookout
- 11. the importance of maintaining a safe speed, and the impact of restricted visibility when identifying a safe speed
- 12. the meaning of alarms on board vessels
- 13. how to interpret tidal and weather information and how different types of adverse weather can impact upon vessel movements within port areas
- 14. the importance of applying speed limits and the effect of the craft's speed upon other vessels, property and persons

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- 15. the impact of the motion of craft and tidal range upon berthing operations, and the effects of their interaction for other vessels
- 16. the role and responsibilities of those on board the vessels
- 17. organisational procedures for carrying out and recording pre-sailing checks, including those for recording difficulties and faults found
- 18. organisational manoeuvring procedures for craft within the port environment
- 19. the design specifications relating to the use of engines and helm within the craft operated
- 20. workplace procedures for dealing with emergency situations on board craft, including person overboard
- 21. local geography and water conditions, including navigable channels and tides, and their impact upon manoeuvring craft within own port
- 22. the use and location of safety equipment on board the vessel, including the operation of emergency/bilge pumps and CO2 smothering equipment
- 23. the importance of set and leeway, in setting course and the different types of courses, including true, magnetic, compass and gyro and the impact of deviation and variation
- 24. how to select and interpret information within charts and navigation techniques
- 25. how to use electronic navigation aids, such as GPS, chart plotter and radar, and the limitations of navigation equipment
- 26. the use of buoyage systems and navigation lights
- 27. how to use tidal stream atlases, tide tables, Nautical Almanacs and pilot/sailing directions
- 28. organisational procedures for reporting defective equipment
- 29. the organisations requirements relating to recording the movements of craft within own port
- 30. techniques for surviving in the water, techniques for rescuing a person from water and basic first-aid, including resuscitation and the basic recognition and treatment for the onset of hypothermia
- 31. procedures for raising fire alarms, and for isolating areas on board vessels
- 32. firefighting techniques to be used on different types of fire
- 33. the functions of the various parts of unpowered craft, and methods of manoeuvring
- 34. the procedures for making up a tow –alongside, astern and pushing, both for single and multiple craft
- 35. how to use towing equipment, and the importance of the equipment's breaking strains
- 36. the principal dangers associated with towing operations and the actions appropriate to minimising these
- 37. organisational requirements for addressing and reporting difficulties and faults in craft, gear and equipment
- 38. organisational procedures for gaining access to craft as they apply to self and any passengers
- 39. the location of, and how to use, the first-aid, safety and emergency equipment within the port

Glossary

Hazard: something with potential to cause harm **Risk:** a risk is the likelihood of the hazard's potential being realised