



## Regulated Qualifications Unit and Assessment Specification

<b>Unit title</b>	Co-ordinate and Control Vessel Berthing Operations
<b>Ofqual unit code</b>	H/507/1727
<b>SQA unit code</b>	H9GJ 57
<b>SSC ref</b>	PSSSPO106.3

## History of changes

**Publication date:** July 2015

**Version:** 02 (December 2017)

<b>Version number</b>	<b>Date</b>	<b>Description</b>	<b>Authorised by</b>
02	December 2017	Unit specification updated to reflect current Ofqual terminology.	Qualifications Officer

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## Regulated qualifications unit specification

<b>Title</b>	Co-ordinate and Control Vessel Berthing Operations	
<b>Level</b>	3	
<b>Credit value</b>	3	
<b>Learning outcomes</b>	<b>Assessment criteria</b>	
<b>The learner will:</b>	<b>The learner can:</b>	
1 Understand the relevant legislation, guidance and organisation requirements for vessel berthing operations.	1.1 Summarise the legal responsibilities for maintaining own and others' health and safety in the workplace.	1.2 Explain the requirements placed upon individuals and their organisation by current legislation, relevant to vessel berthing operations.
	1.3 Identify the current industry guidance and organisational policies, procedures and working practices relevant to vessel berthing operations.	1.4 Describe the hazards and principal areas of risk likely to be found within own area of responsibility and the relevant precautions to take in addressing these.
	1.5 Outline the organisation's accident and emergency procedures including the roles and responsibilities of individuals in own area of operations.	
2 Understand vessel berthing operations.	2.1 Explain the correct terminology used to describe vessels and their movements within a port area.	2.2 Describe the methods and procedures for handling mooring ropes, including dipping ropes, heaving lines and the hand signals used for heave, slack, stop and secure.

Learning outcomes The learner will:	Assessment criteria The learner can:
	<p>2.3 Describe the types, functions and adjustments of equipment, and regulations governing radio transmission in both normal and emergency situations.</p> <p>2.4 State the conditions likely to affect the transmission and reception of signals, relevant to own area of operations.</p> <p>2.5 Explain how to obtain accurate information about a vessel and relate this to berthing availability within own area of operations.</p> <p>2.6 Summarise the information needed for planning the berthing of vessels.</p>
<p>3 Understand the factors which impact on berthing operations.</p>	<p>3.1 Explain how tides and different types of adverse weather conditions impact upon vessel movements and berthing operations within own port area.</p> <p>3.2 Explain the impact the motion of vessels and tidal range have on berthing vessels in own area of operations.</p> <p>3.3 Explain the importance of applying speed limits relating to berthing operations of larger vessels.</p> <p>3.4 State the dimensions, limitations and maintenance requirements of docks and approach channels within own area of operations.</p>
<p>4 Be able to plan for vessel berthing.</p>	<p>4.1 Identify the vessels intended berthing position, and confirm that the designated berth is available and ready for use.</p> <p>4.2 Obtain all relevant information regarding the vessel to prepare for berthing.</p>

Learning outcomes	Assessment criteria
The learner will:	The learner can:
	<p>4.3 Agree berthing arrangements with all involved ahead of the operations.</p> <p>4.4 Confirm the staffing and resource requirements necessary to berth the vessel, identifying the actions to be undertaken.</p> <p>4.5 Allocate work to individuals or teams in line with the actions to be undertaken, taking into account skills, knowledge, experience and workloads.</p>
<p>5 Demonstrate safe coordination and control of vessel berthing operations in a port.</p>	<p>5.1 Ensure berthing materials and equipment are used correctly and safely, with vessels berthed in line with correct procedures.</p> <p>5.2 Monitor all activities of individuals within the vicinity of the berthing operations, and take immediate and appropriate actions to address dangerous situations.</p> <p>5.3 Monitor the activities of individuals or teams against the standards of performance expected, and provide feedback.</p> <p>5.4 Check that the quayside is left clean, tidy and free of obstructions upon completion of the berthing.</p> <p>5.5 Respond to any difficulties or incidents, reporting these to the appropriate person, as required.</p> <p>5.6 Complete all required documentation in line with organisational procedures, issuing this to the relevant individuals.</p> <p>5.7 Communicate clearly throughout operations with all those involved checking understanding.</p> <p>5.8 Respond to changes in circumstances promptly and adjust plans and activities accordingly.</p> <p>5.9 Review working practices and procedures to identify opportunities for improvements.</p>

<b>Additional information about the unit</b>
<b>Unit purpose and aim(s)</b>
<p>This unit provides the skills and knowledge required to co-ordinate and control vessel berthing operations. It covers identifying an appropriate berth for a vessel and safely managing the movement of the vessel into the berth. It requires effective communication between those involved, control of available resources and recording of vessel movements.</p> <p>The assessment route is recommended for supervisors and other first line managers.</p>
<b>Unit start date</b>
1 July 2015
<b>Details of the relationship between the unit and relevant national occupational standards (if appropriate)</b>
This unit is based on NOS unit PSSSPO 103 Co-ordinate and control the use of port infrastructure developed by Port Skills and Safety.
<b>Details of the relationship between the unit and other standards or curricula (if appropriate)</b>
Not applicable
<b>Assessment requirements specified by a sector or regulatory body (if appropriate)</b>
Unit to be assessed in accordance with the Port Skills Safety (PPS) Assessment Strategy 'Port Operations and Supervision of Port and Maritime Operations'.
<b>Endorsement of the unit by a sector or other appropriate body (if required)</b>
Not applicable
<b>Location of the unit within the subject/sector classification system</b>
4.3 Transportation Operations and Maintenance
<b>Name of the organisation submitting the unit</b>
Port Skills and Safety
<b>Guided learning hours</b>
30

## Regulated qualifications assessment specification

### Assessment (evidence) requirements

Assessment should be in the workplace as much as possible.

Your responsibilities will require you to comply with organisational policy and procedures and to report any problems with the activities that you cannot personally resolve, or are outside your permitted authority, to the relevant people.

You will be expected to work with supervision and/or as a member of a team. You will take personal responsibility for your own actions and for the quality and accuracy of the work that you carry out. Where team working is involved, you must demonstrate a significant personal contribution during the team activities in order to satisfy the requirements of the standard and competence in all the areas required by the standard which must be demonstrated.

Your underpinning knowledge will be sufficient to provide a sound basis for your work and will provide an informed approach to applying the appropriate operational techniques and procedures. You will have an understanding of the basic knowledge behind the equipment being used and its application and in adequate depth to provide a sound basis for carrying out the activities to the required specification.

You will understand the safety precautions required when carrying out the activities. You will be required to demonstrate safe working practices throughout and will understand your responsibility for taking the necessary safeguards to protect yourself and others in the workplace

The following evidence is required to demonstrate that learners have the appropriate level of knowledge to undertake Manage Port Users in an Emergency. All learning outcomes and assessment criteria must be achieved.

Written and/or recorded oral evidence produced either on or off-the-job is required for the following:

Learning Outcomes 1, 2 and 3

Performance evidence in the workplace or in an appropriate simulated environment is required for the following:

Learning Outcomes 4 and 5

This could be achieved through the observation of learners undertaking practical exercises.

### Guidance on assessment

Performance evidence can be generated using practical exercises in a simulated environment.

Short answer written questions and/or oral interview could be used for the other learning outcomes and assessment criteria.