



Unit and Assessment Specification

Unit title	Vessel Ropework, Anchoring and Mooring Operations
SQA Code	H0JB 04
SCQF Level	5
SCQF Credit Points	9
SSC Ref	MSA 3

History of changes

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Title		Vessel Ropework, Anchoring and Mooring Operations	
Learning Outcomes		Assessment Criteria	
The learner will:		The learner can:	
1	Understand the importance of ropework and demonstrate the use of a range of ropes and wires on board a vessel.	1.1	Describe the characteristics, safe handling, use and care of different ropes and wires, including natural fibre rope, man made rope, wire rope and combination rope.
		1.2	Produce knots, bends and hitches in common use, eg reef knot, bowline, sheet bend (double and single), rolling hitch, round turn and two half hitches, and identify the use of each.
		1.3	Demonstrate seizing, whipping and splicing wire and rope and identify the use of each.
		1.4	Demonstrate the safe use of bosun's chairs and stages.
		1.5	Describe the characteristics, safe handling, use and care of blocks, tackles, hooks and shackles.
		1.6	Describe the rigging of safety lines.
2	Know how to safely assist in anchoring operations.	2.1	Describe the types of anchor in common use, anchor parts, windlass and associated equipment, and anchoring terminology.
		2.2	Demonstrate safe anchoring procedures, including the use of personal protective equipment.
		2.3	Describe emergency procedures, eg slipping the bitter end, hanging off an anchor.
3	Know how to safely assist in mooring operations.	3.1	Describe mooring technology and equipment.
		3.2	Describe safe mooring procedures.
		3.3	Describe alternative mooring arrangements, eg mooring to buoys, single point moorings, mooring alongside other vessels, slip wires, warping along a quay.
		3.4	Identify communication methods in common use.
		3.5	Describe ancillary mooring operations, including tugs, workboats, fire wires, fenders.

Learning Outcomes		Assessment Criteria	
The learner will:		The learner can:	
4	Know how to provide and maintain safe access to vessels.	4.1	Describe the use of gangways, accommodation ladders, other approved systems, pilot hoists and ladders.
		4.2	Describe how to carry out rigging for safe access.
		4.3	Identify the need to adjust access arrangements when alongside e.g. the effects of the tide, changes of draft and trim, the effect of wind, waves swell and passing vessels.
5	Be able to comply with Statutory and Industry Regulations for safe working on board vessels.	5.1	Describe the relevant Merchant Shipping legislation.
		5.2	Describe the relevant HSE legislation.
		5.3	Describe industry guidelines, eg Code of Safe Working Practice, M Notices.

Additional information about the Unit
Unit purpose and aim(s)
<p>This Unit is designed for study by:</p> <ul style="list-style-type: none"> ◆ those with an interest in the sector ◆ those considering working in the sector ◆ those already in the sector — to receive recognition for their knowledge and understanding ◆ those working towards the Efficient Deck Hand (EDH) Certificate <p>The aim of the Unit is to provide the knowledge and proficiency for assisting with ropework, anchoring and mooring operations, in line with the regulatory requirements for the Efficient Deck Hand Certificate as defined in MGN 97.</p>
Details of the relationship between the Unit and relevant national occupational standards (if appropriate)
<p>MNTB/SFIA Marine NOS Units A32, B13, B21 Non pleasure vessels operating in inland and coastal waters NOS N117</p>
Details of the relationship between the Unit and other standards or curricula (if appropriate)
<p>MNTB/SFIA Underpinning Knowledge Library Documents, MGN 97</p>
Assessment requirements specified by a sector or regulatory body (if appropriate)
<p>Assessment will be by a combination of the following methods — assignment; knowledge based testing; project work; presentation; practical demonstration; other, as agreed in consultation with the external verifier.</p>

Assessment (evidence) Requirements

The following evidence is required to demonstrate that learners have the appropriate level of knowledge to undertake Vessel Ropework, Anchoring and Mooring Operations. 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 Outcome 1 — Assessment Criteria 1, 5 and 6
- ◆ Learning Outcome 2 — Assessment Criteria 1 and 3
- ◆ Learning Outcomes 3, 4 and 5

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

- ◆ Learning Outcome 1 — Assessment Criteria 2, 3 and 4
- ◆ Learning Outcome 2 — Assessment Criterion 2

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

An approved Maritime Skills Alliance (MSA) approved Training Record Book (TRB) should be used to record evidence of achievement.

Guidance on Instruments of Assessment

Performance evidence can be generated using an approved Maritime Skills Alliance (MSA) approved Training Record Book (TRB) and/or practical exercises.

Short answer written questions and/or oral interview could be used for the other Outcomes and Assessment Criteria.