

Qualification Unit

This unit forms part of a regulated qualification.

Unit Title: Vessel Ropework, Anchoring and Mooring Operations

Unit Reference Number: D/651/5434

Level: Two (2)

Credit Value: Five (5)

Minimum Guided Learning Hours: 50

Learning Outcome (The Learner will):	Assessment Criterion (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 e.g. 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, e.g. slipping the bitter end, hanging off an anchor

3. Know how to safely assist in mooring operations	3.1	Describe mooring terminology and equipment
	3.2	Describe safe mooring procedures
	3.3	Describe alternative mooring arrangements e.g. 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
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 e.g. Code of Safe Working Practice, M Notices