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| **MSA Unit 24** | **QCF Ref:** [**D/503/2148**](http://register.ofqual.gov.uk/Unit/Details/D_503_2148) | |
| Title: | **Vessel ropework, anchoring and mooring activities** | |
| Level: | **2** | |
| Credit value: | **2** | |
| **Learning outcomes - The learner will:** | | **Assessment criteria - The learner can:** |
| 1. Understand the use of ropework on board a vessel | | 1.1 Describe the safe handling, use and care of ropes, wires and webbing used for lashing, lifting and mooring  1.2. Describe the safe handling and care of:   * blocks * tackles * hooks * shackles   1.3. Describe the rigging of safety lines |
| 2. Be able to undertake ropework on a vessel | | 2.1. Produce knots, bends and hitches in common use including:   * reef knot * bowline * sheet bend * clove hitch * rolling hitch, * round turn and two half hitches   2.2 Use bosun’s chairs safely  2.3 Use stages safely |
| 3. Know how to safely assist in anchoring operations | | 3.1 Describe anchor equipment including:   * parts of the anchor * windlass * associated equipment,   3.2 List anchoring terminology used during anchoring operations  3.3 Describe safe anchoring procedures including the use of personal protective equipment |
| 4. Know how to safely assist in mooring operations | | 4.1 Describe safe mooring procedures  4.2 Identify communication methods in common use when carrying out mooring operations |
| 5.Know how to maintain safe access to vessels | | 5.1 Describe the use of gangways  5.2 Describe how to rig safe access to vessels |
| Additional information about the unit | | This unit is designed for those whose role is to assist with a navigational watch, contributing towards the watch rating certificate as defined in STCW A-II/4. |
| Unit aim(s) | | The aim of the unit is to provide the knowledge and proficiency for assisting with ropework, anchoring and mooring operations, contributing toward the navigational watch rating certificate |
| Unit expiry date | |  |
| Details of the relationship between the units and relevant national occupational standards | | MNTB/SFIA Marine NOS units B13, B21  Non pleasure vessels operating in inland and coastal waters NOS N117 |
| Details of the relationship between the unit and other appropriate standards or curricula | | MNTB/SFIA Underpinning Knowledge Library Documents, MGN 97 |
| Assessment requirements specified by a sector or regulatory body | | 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 |
| Endorsement of the unit by a sector or other appropriate body | | Maritime Skills Alliance  Maritime and Coastguard Agency  Merchant Navy Training Board |
| Location of the unit within the subject/sector classification system | | Transportation Operations and Maintenance |
| Name of the organisation submitting the unit | | SQA |
| Availability for use | | Restricted |
| Availability for delivery | |  |
| Guided Learning Hours | | 18 |