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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 mooring1.2. 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 safely2.3 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 operations3.3 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 procedures4.2 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 gangways5.2 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, B21Non 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 AllianceMaritime and Coastguard AgencyMerchant 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 |