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| **MSA Unit 108**  | **QCF Ref: D/505/9334**  |
| Title: | **Navigation and Bridge Watchkeeping on Domestic Vessels in Non-Tidal Waters** |
| Level: | **2** |
| Credit value: | **3** |
| Learning outcomes - The learner will: | Assessment criteria - The learner can: |
| 1. Know how to prepare a vessel for passage | 1.1 Describe the process of securing a vessel for departure1.2 Describe the process of pre-sailing checks |
| 2. Know how to navigate a vessel on passage | 2.1 Describe the use of waterways guides, maps and charts 2.2 Describe the direction of buoyage, and recognition of marks from shape, colour, top mark and light2.3 Describe the correct actions to take on meeting a mark2.4 Describe the duties expected of a watch-keeper 2.5 Describe English marine terminology relating to vessel navigation2.6 Describe the procedures for relief, maintenance, takeover and handover of a watch 2.7 Describe the elements of good navigational practice while underway 2.8 Describe sound and light signals 2.9 Describe the responsibilities of a lookout 2.10 Describe routine communication procedures with other team members of the watch on matters relating to watchkeeping duties2.11 Describe the relative movement of other vessels.2.12 Describe the procedures for entering and leaving a dock or a lock in all stream conditions2.13 Describe the procedures for passing through (under) bridges and navigating in close proximity within a canal  |
| 3. Know how to communicate internally and externally  | 3.1 Describe the use and meaning of relevant single letter code flags listed in the International Code of Signals3.2 Describe applicable distress signals as specified in the International Code of Signals3.3 Describe routine and emergency communication procedures3.4 Describe how to use telephones, hand held radios and emergency signals |
| 4. Know how to carry out pre-arrival checks | 4.1 Describe the process of pre-arrival checks |
| 5. Know how to undertake an anchor watch | 5.1 Describe how to maintain an anchor watch, including checks made for anchor dragging |
| 6. Know how weather can affect vessel operations | 6.1 Define meteorological terms in sufficient depth to interpret weather conditions6.2 Describe the use of non-instrumental observations6.3 Describe types of cloud, cloud cover and precipitation 6.4 Describe the main synoptic patterns on UK surface charts, including associated weather and local winds6.5 Define visibility including horizontal visibility |
| Additional information about the unit | This unit is designed for study by those working towards meeting the requirements for BML Tier 1 Level 1 Generic Underpinning Knowledge |
| Unit aim(s) | The aim of the unit is to provide the knowledge underpinning proficiency (in part) for taking charge of a domestic vessel in non-tidal waters, including the requirements (in part) for BML Tier 1 Level 1 Generic Underpinning Knowledge |
| Unit expiry date |  |
| Details of the relationship between the unit and relevant national occupational standards (if appropriate) | MSA Marine NOS 2012: B01, B02 |
| Details of the relationship between the unit and other standards or curricula (if appropriate) | MCA syllabus for the BML Tier 1 Level 1 Generic Underpinning Knowledge |
| Assessment requirements specified by a sector or regulatory body (if appropriate) | 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 (if required) | Maritime Skills AllianceMaritime & Coastguard Agency |
| Location of the unit within the subject/sector classification system | Transportation Operations and Maintenance |
| Name of the organisation submitting the unit | Skills for Logistics, for Maritime Skills Alliance |
| Availability for use | Unrestricted |
| Availability for delivery |  |
| Guided Learning Hours | 30 |