
Overview

You will be involved in activities such as:

- 1 Operating mooring equipment
- 2 Ensuring correct positioning of vessel
- 3 Ensuring that agreed mooring plan is implemented
- 4 Implementing ship/shore safety checklist
- 5 Evaluating results of ship/shore safety checklist and take appropriate action

During this work you must take account of the relevant operational requirements and safe working practices AS THEY APPLY TO YOU.

Previous Version: Liquid Transfer & Storage National Occupational Standards
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Performance criteria

You must be able to:

- P1 complete pre-use safety check before using shore mooring equipment
- P2 ensure that shore mooring equipment is operated correctly according to agreed mooring scheme
- P3 monitor the vessel's mooring operation
- P4 obtain all relevant information from vessel
- P5 analyse information and ensure that the vessel is positioned within prescribed parameters
- P6 ensure the vessel is correctly positioned alongside and cargo transfer equipment connections can be safely made
- P7 take the appropriate action if the vessel moves out of prescribed parameters
- P8 ensure the vessels mooring pattern meets the prescribed plan for the vessel and berth
- P9 ensure that the correct equipment is used in accordance with the mooring scheme
- P10 ensure that the agreed mooring plan is implemented
- P11 ensure that vessel and shore's emergency plans and procedures are defined and agreed
- P12 check and confirm that the vessel has been inspected according to prescribed checklist
- P13 check and confirm that the shore/terminal has been inspected according to prescribed checklist
- P14 ensure that vessel has been provided with relevant documentation and notices
- P15 record all information accurately
- P16 agree repetitive checks take place at the prescribed intervals
- P17 obtain results of the vessel and shore/terminal repetitive checks
- P18 recognise and record any deficiencies and/or violations
- P19 evaluate the seriousness of any deficiencies and/or violations
- P20 decide on the appropriate action to take within the limits of your responsibility
- P21 determine who will take the appropriate action
- P22 ensure that the action is taken, and monitor the results
- P23 decide on further action required, if remedial action is not effective or not possible
- P24 deal promptly and effectively with problems that are your responsibility, and report those that you cannot solve and/or are not your responsibility to the relevant person
- P25 communicate all relevant information to the appropriate people
- P26 work safely in accordance with operational requirements

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Knowledge and understanding

You need to know and understand:

- K1 how to complete pre-use safety checks
- K2 how to recognise that the vessel's mooring equipment is correctly applied
- K3 how to monitor vessel's mooring equipment
- K4 how to ensure that mooring equipment is operated within agreed parameters
- K5 what effects external factors have on mooring
- K6 how to obtain relevant information from vessel
- K7 why it is important to obtain the correct information
- K8 what units of measurement and terminology to use
- K9 what methods to use to analyse dimensions of vessel
- K10 what types of connecting equipment should be used
- K11 what are the prescribed parameters
- K12 what the principles of safe mooring are
- K13 how to interpret information in mooring plans and schemes
- K14 how to ensure that the mooring pattern meets the prescribed mooring plan
- K15 what the limitations of mooring patterns are
- K16 which springs to use for fore and aft restraint
- K17 what factors can affect the use of the mooring equipment
- K18 how to assess the condition of the mooring equipment
- K19 how to ensure that emergency plans and procedures are defined and agreed
- K20 how to check that the vessel has been inspected according to prescribed ship/shore safety checklist
- K21 how to check that the shore/terminal has been inspected according to prescribed ship/shore safety checklist
- K22 how to ensure that hazards associated with repetitive checks are minimised
- K23 methods to be used to confirm that the prescribed repetitive checks have been completed
- K24 what documentation and notices need to be provided to the vessel
- K25 how to obtain the relevant documentation and notices
- K26 how to ensure that the vessel receives the relevant documentation and notices
- K27 how to ensure that repetitive checks take place at prescribed intervals
- K28 why it is important for repetitive checks to take place at prescribed intervals
- K29 why it is important to record all information accurately
- K30 how to obtain the results of the safety check/s
- K31 how to recognise and record any deficiencies and/or violations

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- K32 how to evaluate the information gained
- K33 how to ensure that all resources required are available and appropriate
- K34 your own responsibilities and duties and your duties under current environmental legislation
- K35 the problems that may occur and how to deal with them
- K36 who to refer to with problems that are not your responsibility and/or you cannot solve
- K37 the appropriate methods of communication (including documentation) to use
- K38 how and when to obtain and use the appropriate PPE (Personal Protective Equipment) and how to select, use and care for PPE (to include sight/hearing protection, gloves, footwear, hard hats, respirators)
- K39 the implications of statutory and organisational requirements
- K40 how to interpret operational requirements (e.g. policies, procedures, Permit To Work, instructions, codes of practice, standards, schedules)
- K41 the risks and hazards associated with the activity
- K42 all relevant rules, regulations and guidelines

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Additional Information

Scope/range related to performance criteria

- 1 Recognise the vessel's mooring equipment is correctly applied according to agreed mooring scheme, taking account of all of the following factors:
 - 1.1 tensions
 - 1.2 winch forces
 - 1.3 external factors to include, tide, weather, waves, passing vessels
 - 1.4 brake holding power
- 2 Obtain relevant information from vessel to include all of the following:
 - 2.1 vessel freeboard
 - 2.2 bow to centre manifold
- 3 Meet the prescribed mooring plan, following principles of safe mooring, taking into account all of the following factors:
 - 3.1 angle of rope above horizontal
 - 3.2 angle of rope from fore/aft axis of ship
 - 3.3 length of rope
 - 3.4 unacceptable use of mixed moorings
- 4 Check and confirm that the vessel and shore/terminal has been inspected according to the prescribed checklist. The prescribed checklist will include relevant sections from all of the following:
 - 4.1 ISGOTT Ship Shore Safety Checklist
 - 4.2 IMO Conventions
 - 4.3 National, local legislation and guidelines
 - 4.4 Terminal requirements
- 5 Evaluate the information using the appropriate methods

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