

## COGJO9

# Contribute to pre-mooring operations in jetty operations



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### Overview

You will be involved in activities such as:

- 1 Contribute to pre-mooring operations

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 – July 2005

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### Performance criteria

*You must be able to:*

- P1 obtain relevant information
- P2 analyse information and ensure that the ship is positioned within prescribed parameters
- P3 ensure that cargo transfer equipment and connections can be made when ship is correctly positioned
- P4 select the correct equipment for the mooring scheme
- P5 assess the condition of all equipment to be used in the mooring scheme at regular intervals
- P6 inspect mooring equipment according to standard operating procedures
- P7 identify any defective or sub standard equipment
- P8 complete pre-use safety checks before using mooring equipment
- P9 operate mooring equipment correctly according to agreed mooring scheme
- P10 ensure ship's mooring equipment operates within agreed parameters
- P11 monitor ship's mooring equipment during mooring operation
- P12 take the appropriate action if the ship moves out of prescribed parameters
- P13 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
- P14 communicate all relevant information to the appropriate people
- P15 work safely in accordance with operational and environmental requirements

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### Knowledge and understanding

*You need to know and understand:*

- K1 the relevant information to obtain
- K2 why it is important to obtain the correct information
- K3 the units of measurement and terminology to use
- K4 the methods to use to analyse dimensions of ship
- K5 the types of connecting equipment that should be used
- K6 the appropriate action to take when the ship is out of prescribed parameters
- K7 how to identify and select the correct mooring equipment
- K8 the factors that can affect the use of the mooring equipment
- K9 how to assess the condition of the mooring equipment
- K10 why it is important to assess the condition of the mooring equipment
- K11 how to identify defective/sub standard equipment
- K12 how to complete pre-use safety checks
- K13 how to recognise that the ship's mooring equipment is correctly deployed
- K14 how to monitor ship's mooring equipment.
- K15 how to ensure that mooring equipment is operated within agreed parameters
- K16 the effects that external factors have on mooring
- K17 the principles of safe mooring
- K18 how to interpret information in mooring plans and schemes
- K19 how to ensure that the mooring pattern meets the prescribed mooring plan
- K20 the limitations of mooring patterns

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### Additional Information

#### Scope/range related to performance criteria

- 1 Obtain relevant information from vessel to include all of the following:
  - 1.1 vessel freeboard
  - 1.2 bow to centre manifold
  - 1.3 manifold arrangements
  
- 2 Select the correct equipment for the mooring scheme taking account of all of the following:
  - 2.1 relevant external factors
  - 2.2 relevant environmental factors
  - 2.3 factors affecting the restraint capacity of moorings
  - 2.4 springs, head, stern and breast lines
  
- 3 Inspect and assess the condition of the mooring equipment at regular intervals according to prescribed procedures
  
- 4 Recognise that vessel's mooring equipment is correctly applied according to agreed mooring scheme, taking account of all of the following factors:
  - 4.1 tensions
  - 4.2 winch forces
  - 4.3 external factors to include, tide, weather, waves, passing vessels
  - 4.4 brake holding power
  
- 5 Meet the prescribed mooring plan, following principles of safe mooring, taking into account all of the following factors:
  - 5.1 angle of rope above horizontal
  - 5.2 angle of rope from fore/aft axis of ship
  - 5.3 length of rope
  - 5.4 unacceptable use of mixed moorings

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**Relevant occupations** Professional Occupations; Engineering Professionals; Engineering and manufacturing technology; Engineering

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**Suite** Jetty Operations

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