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**Overview**

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting materials, components and equipment, preparing for, moving, containing and securing plant or machinery to a floating vessel

This standard is for people who operate plant or machinery attached or mounted on a floating vessel and can be used by operatives, supervisors and managers

**Performance criteria**

- You must be able to:
- P1 interpret the given operating information relating to the use of plant or machinery and confirm its relevance
  - P2 organise with others the sequence in which the work is to be carried out
  - P3 comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe and healthy work practices
  - P4 request resources to sustain plant or machinery operations to complete the programme of work
  - P5 select plant or machinery resources for the methods of work and operations to be carried out
  - P6 comply with organisational procedures to minimise the risk of damage to the work and surrounding area
  - P7 comply with the given contract information to carry out the work efficiently to the required specification
  - P8 complete the work within the allocated time, in accordance with the programme of work

**Knowledge and understanding**

**Performance Criteria 1**

**Interpretation of information**

You need to know and understand:

- K1 the organisational procedures developed to report and rectify inappropriate **information** and unsuitable **resources**, and how they are implemented
- K2 the types of **information**, their source and how they are interpreted
- K3 the organisational procedures to solve **problems** with the **information** and why it is important they are followed

**Performance Criteria 2**

**Organise with others**

You need to know and understand:

- K4 **communication** of ideas between team members
- K5 organisation of **resources** in conjunction with the progress of work
- K6 the **skills** required to carry out the work

**Performance Criteria 3**

**Safe work practices**

You need to know and understand:

- K7 the level of understanding operatives must have of **information** for relevant, current **legislation, Approved Codes of Practice and official guidance** and how it is applied
- K8 the types of **fire extinguishers** and how and when they are used
- K9 how **emergencies** should be responded to and who should respond
- K10 the organisational **security procedures** for plant and/or machinery, tools, equipment and personal belongings
- K11 what the accident reporting procedures are and who is responsible for making the report
- K12 why, when and how **health and safety control equipment** should be used
- K13 how to comply with environmentally responsible working practices to meet the requirements of current **legislation and official guidance**

**Performance Criteria 4**

**Request resources**

You need to know and understand:

K14 the organisational procedures for requisitioning consumables and other **resources**

**Performance Criteria 5**

**Selection of resources**

You need to know and understand:

K15 the characteristics, quality, uses, sustainability, limitations and defects associated with plant **resources** and how defects should be rectified

K16 how the **resources** should be used and how any **problems** associated with the **resources** are reported

K17 the organisational procedures to select **resources**, why they have been developed and how they are used

K18 the **hazards** associated with the **resources** and **methods of work** and how they are overcome

**Performance Criteria 6**

**Minimise the risk of damage**

You need to know and understand:

K19 how to **protect work** from damage and the purpose of protection

K20 why **disposal of waste** should be carried out safely and how it is achieved

**Performance Criteria 7**

**Meet the contract specification**

You need to know and understand:

- K21 how **methods of work**, to meet the specification, are carried out and **problems** reported
- K22 how **maintenance** of plant and/or machinery, tools and equipment is carried out

**Performance Criteria 8**

**Allocated time**

You need to know and understand:

- K23 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

**Additional Information**

**Scope/range related to performance criteria**

**Performance Criteria 1**

- 1 interpretation of drawings, specifications, schedules, method statements, lift plans, risk assessments and manufacturers' information related to the floating vessel operation and the work to be carried out

**Performance Criteria 2**

- 2 organisation of own work
- 3 communication with team members and other associated occupations about the floating vessel operation and the work to be carried out

**Performance Criteria 3**

- 4 avoidance of risk by complying with the given safety information relating to the following
  - 4.1 methods of work
  - 4.2 safe use of health and safety control equipment
  - 4.3 safe use and storage of plant or machinery on floating vessels
  - 4.4 safe use and storage of tools and equipment
  - 4.5 specific risks to health
- 5 safe use of fire extinguishers, as appropriate to the fire

**Performance Criteria 4**

- 6 follow organisational procedures for the requisition of consumables, materials and other resources

**Performance Criteria 5**

- 7 selection of resources associated with own work
  - 7.1 plant, machinery, attachments, tools and ancillary equipment

**Performance Criteria 6**

- 8 protection of the work and its surrounding area from damage
- 9 prevent damage and maintain a clean work space
- 10 disposal of waste in accordance with current legislation

**Performance Criteria 7**

- 11 demonstration of work skills to check, set up, adjust, communicate, operate, manoeuvre, control, position and sea fasten
- 12 use and maintain hand tools, ancillary equipment, accessories and lifting accessories
- 13 carry out plant operations from a floating vessel to given working instructions, protocols and Codes of Practice, relating to the movement and operation for at least six of the following activities
  - 13.1 lift
  - 13.2 transfer
  - 13.3 extract
  - 13.4 excavate
  - 13.5 construct
  - 13.6 form
  - 13.7 receive
  - 13.8 access
  - 13.9 distribute
  - 13.10 demolish
  - 13.11 process
- 14 shut down and secure plant or machinery

**Performance Criteria 8**

- 15 completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client

**Scope/range related to knowledge and understanding**

**Communication**

- 1 discussions, sketches, electronic data and briefings

**Disposal of waste**

- 2 environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance

**Emergencies**

- 3 operative's response to situations in accordance with organisational authorisation and personal skills when involved with
  - 3.1 fires, spillages, injuries
  - 3.2 emergencies relating to occupational activities
  - 3.3 man overboard

**Fire extinguishers**

- 4 water, CO<sub>2</sub>, foam, powder and their uses

**Hazards**

- 5 those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance

**Health and safety control equipment**

- 6 identified by the principles of protection for occupational use, types and purpose of each type, work situations and general work environment
  - 6.1 collective protective measures(including marine life saving equipment)
  - 6.2 local exhaust ventilation (LEV)
  - 6.3 personal protective equipment (PPE including life jackets)
  - 6.4 respiratory protective equipment (RPE)

**Information**

- 7 drawings, specifications, schedules, method statements, lift plans, risk assessments, manufacturers' information and current regulations governing operations from and with, a floating vessel

**Legislation, Approved Codes of Practice and official guidance**

- 8 this relates to the operative's responsibilities regarding potential accidents, health hazards and the environment whilst working in the workplace, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting



**Maintenance**

9 operative care of hand tools, plant, machinery and ancillary equipment

**Methods of work**

10 application of knowledge for safe and healthy work practices, procedures and skills relating to the method/area of work and materials used to

10.1 mobilise and demobilise plant for floating vessel operations

10.2 identify the restrictions on plant and machinery when operating on a floating vessel

10.3 counter the effects of floating vessel movement during plant and machinery operations

10.4 carry out function checks for the control of plant and machinery on the floating vessel

10.5 confirm the area of work for the operation

10.6 recognise operational limitations and de-ratings

10.7 confirm safety and security requirements

10.8 recognise and determine when specific skills and knowledge are required and report accordingly

10.9 synchronise movements with other plant and machinery on a floating vessel

10.10 prepare, manoeuvre, position, sea fasten and set up plant and machinery for operations

10.11 stop, shut down operations and secure plant and machinery

10.12 use hand tools and equipment

11 team work and communication

12 needs of other occupations associated with plant and machinery operations from a floating vessel

**Problems**

13 those arising from information, resources and methods of work

13.1 own authority to rectify

13.2 organisational reporting procedures

**Programme**

- 14 types of progress charts, timetables and estimated times
- 15 organisational procedures for reporting circumstances which will affect the work programme

**Protect work**

- 16 protect work against damage from general workplace activities, other occupations and adverse weather conditions

**Resources**

- 17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and specialist
  - 17.1 floating vessels
  - 17.2 consumables, lubricant, fuels
  - 17.3 attachments
  - 17.4 hand tools, accessories and ancillary equipment
- 18 identify weight, ballast, quantity, length and area associated with the method/procedure for plant and machinery operations from floating vessels

**Security procedures**

- 19 site, workplace, company and operative

**Skills**

- 20 own occupation and occupations related to the work

**Glossary**

**Construct:** to put together substances or parts systematically in order to make or build (a building, bridge, etc.), assemble, something formulated or built systematically

**Form:** to give shape to or bring into existence, to make or construct

**Process:** a method of doing or producing something, convert bulk raw materials into workable form, activities that produce a specific service or product for customers

## COSVR403 – SQA Unit Code HM94 04

### Operate plant or machinery from a floating vessel

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