

COGOS7

Configure, enable and maintain offshore survey equipment



Overview

The unit deals with the following:

- 1 Operate offshore survey equipment
- 2 Monitor offshore survey equipment
- 3 Maintain offshore survey equipment

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

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Performance criteria

You must be able to:

- P1 review all relevant project procedural documentation
- P2 configure sensors for operational requirement
- P3 perform basic operations on survey system components
- P4 operate the on-line survey systems
- P5 operate on-line survey vessel graphics and numeric displays, configured and assigned waypoints and surveyed run lines to vehicles
- P6 enable and disable survey system logging at required interval
- P7 operate standard surface navigation equipment
- P8 operate standard sub-surface positioning equipment
- P9 generate manual and automatic fixes
- P10 generate hard-copy output
- P11 maintain on-line survey log
- P12 work safely in accordance with operational requirements and associated Safe Systems of Work
- P13 select a text display and displayed the current vessel and related information
- P14 set up real time quality control tools
- P15 configure appropriate representation of data
- P16 monitor the status of the navigation system
- P17 manage changing environmental and physical conditions
- P18 maintain accurate on-line logs
- P19 perform basic faultfinding in the computer software
- P20 reconfigure sensors as required
- P21 maintain the performance log
- P22 monitor all system inputs and diagnosed any data outage problems
- P23 modify navigation system parameters such as beacons/stations in use, elevation masks
- P24 conduct physical pre-deployment checks of transponders and subsea sensors on towed bodies, ROVs or similar subsea vehicles.
- P25 make effective use of technical reference material
- P26 report damages/failures as appropriate
- P27 identify the requirement for and undertaken routine maintenance
- P28 order spares and consumables
- P29 ensure good housekeeping

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Knowledge and understanding

You need to know and understand:

- K1 the relevance of sensor to survey purpose
- K2 the relevance and importance of the on-line survey log and associated data recording logs
- K3 how the software package operates and how it is structured
- K4 the efficient use of resources including the need for spares
- K5 principles of satellite surface positioning
- K6 principles of underwater acoustic positioning including the relevance of water column sound velocity
- K7 the principles and practice of beacon selection/de-selection, checking of standard parameters, e.g. offsets, sound velocity
- K8 how to obtain and interpret information on safety
- K9 your own responsibilities as they relate to Organisational Safety Policy, Workplace Safety Policy, Evacuation Procedures, Fire Procedures
- K10 the on-line system components and their function within the overall system
- K11 the suitability of quality control techniques and how to apply them
- K12 how to monitor the status of the navigation system (to include identification and de- selection of poor performing stations)
- K13 the importance of monitoring on-line data quality
- K14 the impact of changing environmental and physical conditions (e.g. sound velocity, tides, currents)
- K15 third party/external impact on survey activities
- K16 the principles and practice of basic electronics
- K17 when to undertake routine maintenance
- K18 how to implement routine maintenance
- K19 how to report on all maintenance activities
- K20 how to obtain and interpret technical information (e.g. manuals, schematics etc.)
- K21 how to report damages/failures as appropriate

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Additional Information

Scope/range related to performance criteria

Safe Systems of Work must include processes or systems that incorporate Hazard Identification, Risk Assessment, Permit to Work and any other associated systems.

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