

COGOS8

Log and implement quality assurance of offshore data



Overview

The unit deals with the following:

- 1 Log survey data
- 2 Apply quality control and visualise

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 perform on-line data logging to company standard procedures
 - P2 correctly use project data storage directories
 - P3 identify data sets acquired by standard survey sensors and used during offline processing
 - P4 perform on-line logging data management routines to company standard procedure
 - P5 implement all relevant indexing and logging of hard and soft copy data
 - P6 maintain on-line survey log and associated records in a legible and logical manner
 - P7 prepare hard and soft copies of logged data
 - P8 prepare data back up and verification in accordance with specification
 - P9 correctly label and store analogue data, video tapes and electronic media
 - P10 work safely in accordance with operational requirements and associated Safe Systems of Work
 - P11 implement quality assurance in accordance with specification and to identify anomalous cases to senior personnel
 - P12 identify data sets acquired by standard survey sensors and used during offline processing
 - P13 maintain data QC records
 - P14 identify and rectify spurious data in raw data sets
 - P15 review data overlap and completeness
 - P16 sign off quality control elements and logged data
 - P17 transfer data recorded online into offline system and verified online acquisition process
 - P18 access and view survey data using processing programs
 - P19 carry out initial interpretation and classification
 - P20 assess quality of on-line data

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Knowledge and understanding

You need to know and understand:

- K1 the key project objectives and deliverables
- K2 company logging procedures and requirements
- K3 company record keeping procedures and requirements
- K4 standard database systems and the benefits they provide
- K5 the need to maintain file and directory naming structures during data acquisition
- K6 how to access and interpret background geo-spatial information
- K7 the range of external factors and how they impact on survey data logging
- K8 the different types of logging parameters for different types of survey applications
- K9 the importance and value of logged data and on-line log
- K10 how to develop and maintain an on-line log
- K11 how to obtain and interpret information on safety
- K12 your own responsibilities as they relate to Organisational Safety Policy, Workplace Safety Policy, Evacuation Procedures, Fire Procedures
- K13 the range of application and visualisation techniques
- K14 the principles and practice of quality control
- K15 the range of variables that impact on survey sensors (e.g. tides; velocity; refraction; footprints; heave; instrumentation)
- K16 sources of error and how to manage them
- K17 statistical methods and how/when to apply them in the context of quality control
- K18 the tolerances of equipment being used

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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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Suite Offshore Surveying

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