

COGTO1

Perform pre-job (tubing) operations



Overview

This unit is about performing pre-job (tubing) operations.

It deals with the following:

- 1 Establishing operational requirements
- 2 Selecting and checking equipment
- 3 Rigging up equipment

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

Previous Version:

Unit CT1 National Occupational Standards in Well Services :
Tubing Operations – August 2001

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Performance criteria

- You must be able to:*
- P1 effectively obtain operational instructions and organise the work of self and others
 - P2 clarify any difficulties with relevant personnel
 - P3 accurately confirm the availability and status of relevant Permits to Work
 - P4 accurately identify and confirm the availability of relevant third party utilities
 - P5 accurately confirm the availability of consumables
 - P6 take appropriate remedial action where errors, omissions and shortages have been identified
 - P7 accurately complete all relevant routine and non-routine calculations
 - P8 work safely and in accordance with operational instructions
 - P9 identify and select equipment which conforms to the operational instructions
 - P10 confirm the equipment is functional and fit for purpose
 - P11 prepare an accurate schematic of the equipment assemblies
 - P12 accurately identify equipment defects and take appropriate remedial action
 - P13 site the equipment for optimum use
 - P14 effectively confirm the well to be in a condition for work to proceed
 - P15 confirm the isolation barriers are functional and fit for purpose
 - P16 effectively confirm the equipment as functional and suitable for operation
 - P17 assemble the equipment in proper sequence
 - P18 identify faults and uncertainties in the assembly and take appropriate remedial action
 - P19 handle the equipment using safe lifting and handling techniques

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Knowledge and understanding

You need to know and understand:

- K1 how to access and interpret operational instructions
- K2 who to report difficulties to
- K3 how to check the availability of third party utilities and consumables
- K4 how to identify errors, omissions and shortages and what remedial action is available to you
- K5 how to identify and confirm the availability of third party utilities
- K6 how to identify the appropriate oilfield calculations and carry them out accurately
- K7 chemical, physical and hazardous properties of materials and fluids used
- K8 limitations of the material, equipment and the environment in which they are used
- K9 the function and operating principles of equipment
- K10 how to use internal and external diameter measuring equipment
- K11 test procedures and how to interpret the results
- K12 how to identify equipment defects and what remedial action is available to you
- K13 how to site and assemble equipment
- K14 how to check and make a decision on the well condition
- K15 principles of well control using mechanical barriers and hydrostatic fluids
- K16 how to carry out bleeding down and pressure equalisation within equipment
- K17 how to set and use the recording and monitoring devices and interpret the output
- K18 function and operating principles of equipment
- K19 how to identify equipment faults and uncertainties and what remedial action is available to you
- K20 depth and weight monitoring techniques
- K21 hazards that are likely to be encountered and how to deal with them

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Additional Information

Scope/range related to knowledge and understanding

- 1 how to select, use and care for Personal Protective Equipment
- 2 the implications of statutory and organisational requirements
- 3 how to interpret operational requirements
- 4 how to work with and within the Permit to Work system
- 5 the location of emergency shutdown and other relevant safety devices
- 6 how to access and interpret relevant reference charts, graphs and well schematics
- 7 how to access and interpret sources of information for well condition and limitations

Glossary

PPE (Personal Protective Equipment)

To include sight/hearing protection, gloves, footwear, hard hats, respirators

Statutory Requirements

E.g. HASAWA and COSHH

Operational requirements

E.g. policies, procedures, instructions, codes of practice, standards, schedules

Operational instructions

To include well sketches

Difficulties

to include unclear instructions, imprecise details, lack of information

Consumables

To include lubricants, fuel, seals, job specific raw materials

Remedial action

For example, report, record, replace, repair, adjust

Third party utilities

To include air, fuel, power, craneage, light, scaffolding, water

How to site and assemble equipment

To include weight distribution, lifting equipment, order of use in assembly, zoning restrictions, line of sight

Depth and weight monitoring techniques

To include depth counters, weight indicators, recording devices

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Suite Tubing Operations

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