

COGTO7

Provide fluids for the operation



Overview

This unit is about providing fluids, other than nitrogen, for the operation.

It deals with the following:

- 1 Preparing fluids
- 2 Pumping fluids

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

Previous Version:

Unit CT4 National Occupations Standards in Well Services:
Tubing Operations – August 2001

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Performance criteria

- You must be able to:*
- P1 accurately confirm the availability of sufficient quantities and types of fluids for the operation
 - P2 accurately confirm that the equipment is clean and free from contamination
 - P3 effectively and accurately mix the fluids and additives
 - P4 effectively obtain, label and store samples
 - P5 accurately identify defects in the equipment and fluids and take appropriate remedial action
 - P6 effectively deal with spillages
 - P7 work safely in accordance with operational requirements
 - P8 effectively confirm the recording and monitoring devices as fit for purpose and set to the required datums
 - P9 effectively operate the equipment and equalise the pressure across the relevant isolation barriers and surface pressure equipment
 - P10 accurately identify faults and defects and take appropriate remedial action
 - P11 effectively shut down the equipment
 - P12 accurately record all relevant information

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Knowledge and understanding

You need to know and understand:

- K1 the appropriate chemical handling procedures
- K2 the fluid mix parameters
- K3 how to carry out the appropriate test procedures and how to interpret the results
- K4 how to take, label and store representative samples
- K5 how to deal with spillages
- K6 the principles of recording and monitoring devices and how to set the datums
- K7 methods of pressure equalisation
- K8 how to shut down the equipment
- K9 what information is required and the required frequency of reading

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Additional Information

Scope/range related to knowledge and understanding

- 1 how to select, use and care for PPE
- 2 the implications of statutory and organisational requirements
- 3 how to interpret operational requirements
- 4 the remedial actions open to you
- 5 how to work with and within the Permit to Work system
- 6 the relevant oilfield calculations and how to carry them out
- 7 the location of emergency shutdown and other relevant safety devices
- 8 the chemical, physical and hazardous properties of materials use
- 9 the limitations of the material and equipment use
- 10 the limitations of the material, equipment and the environment in which they are used
- 11 the nature and potential effect of the well environment on operations and equipment
- 12 how to interpret instrument signals
- 13 the function and operating principles of equipment

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

Relevant reference charts and graphs

To include well schematics

Remedial actions

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

Fluid mix parameters

To include volume, density, viscosity, PH value

The datums of recording and monitoring devices

To include flow rate, pressure, density, PH levels, volume

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Suite Tubing Operations

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