

## COGDO28

# Participate in analysing samples in downstream operations



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### Overview

This unit is about your competence in analysing samples to confirm quality. This unit deals with the following:

- 1 Prepare to analyse samples
- 2 Analyse samples to confirm quality
- 3 Communicate results of analysis

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

This unit deals with the following:

- 4 how to select, use and care for personal protective equipment (e.g. sight/hearing protection, gloves, footwear, hard hats, respirators)
- 5 the implications of statutory and organisational requirements
- 6 how to interpret operational requirements (e.g. policies, procedures, instructions, codes of practice, standards, schedules)
- 7 how to work with and within your permit to work system

### Previous Version:

Adapted from Unit 11 of Refinery Field Operations NOS – version April 2005

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### Performance criteria

*You must be able to:*

- P1 obtain containers appropriate for the sample material
- P2 ensure that containers obtained are clean before use
- P3 ensure that suitable analysis equipment is set up and cleaned correctly
- P4 ensure that the analysis equipment is fit for purpose
- P5 prepare for analysis in the appropriate designated area
- P6 ensure that the sample preparations match schedule, instructions and procedures
- P7 analyse the samples in accordance with standard test method
- P8 leave equipment in a clean and safe condition ready for re-use
- P9 leave the work area in a safe and clean condition
- P10 retain the sample in accordance with procedures
- P11 work safely in accordance with operational requirements
- P12 inform appropriate personnel of results

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#### Knowledge and understanding

*You need to know and understand:*

- K1 how to ensure that analysis equipment is fit for purpose (to include type, accuracy, measurement range appropriateness to sample characteristics)
- K2 why it is essential to clean equipment
- K3 the location of nearest safety equipment
- K4 the incidents which might occur while analysing samples and the action to be taken
- K5 the principles of analysis
- K6 the importance of matching schedule and instructions when analysing samples
- K7 the location of the nearest safety equipment

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### Additional Information

#### Scope/range

Sample types within your work area e.g.:

- 1 Solids
- 2 Liquids
- 3 Hot
- 4 Cold
- 5 Gases toxic
- 6 Gases non-toxic
- 7 Pressurised
- 8 Flammable
- 9 Non-pressurised
- 10 Non-flammable
- 11 Analysis of samples within your work area e.g.:
- 12 Specific gravities
- 13 Concentrations
- 14 Conductivities
- 15 Colour
- 16 Ignition points
- 17 Viscosity
- 18 Gas presence
- 19 Penetrations
- 20 Boiling ranges

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**Suite** Downstream Operations

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**Key words** participate, prepare, analysing, samples, communicate, confirm quality

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