

COGDO6 - SQA Unit Code FA7D 04

Providing samples for analysis in downstream operations



Overview

This unit is about your contribution to taking samples for analysis.

This unit deals with the following:

- 1 Prepare to take samples
- 2 Take samples

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

Previous version:

Adapted from Unit 6 of Refinery Field Operations NOS – version April 2005

**Performance
criteria**

- You must be able to:*
- P1 inform appropriate people that samples are being taken
 - P2 properly obtain containers appropriate for the sample material
 - P3 ensure that containers obtained are fit for purpose before use
 - P4 properly obtain appropriate clothing and equipment
 - P5 identify the location of the nearest safety equipment
 - P6 comply with the requirements stated in the appropriate documentation
 - P7 correctly use the protective clothing and equipment
 - P8 take samples using the appropriate specified method
 - P9 minimise the potential hazards according to the nature of the sample
 - P10 take samples which match the schedule instructions
 - P11 ensure that samples taken are representative
 - P12 ensure that the integrity of the sample is maintained
 - P13 complete all relevant documentation
 - P14 ensure that the sample is fully identified by recording and labelling and promptly taken to the designated point
 - P15 leave sample points in a clean and safe condition ready for re-use
 - P16 work safely in accordance with operational requirements

Knowledge and understanding

You need to know and understand:

- K1 how to select, use and care for PPE (e.g. sight/hearing protection, gloves, footwear, hard hats, respirators)
- K2 the implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- K3 how to interpret operational requirements (e.g. policies, procedures, instructions, codes of practice, standards, schedules)
- K4 how to work with and within the Permit to Work system
- K5 the need for appropriate personal protective equipment (PPE)
- K6 the importance of well maintained equipment
- K7 the importance of informing the appropriate people
- K8 the different types of container used and their specific uses
- K9 how to access and interpret the appropriate documentation (to include sample schedule; labels)
- K10 the potential incidents which might occur while taking samples and the actions required
- K11 the importance of matching schedule and instructions when sampling and analysing
- K12 how to take samples in the most time-economical manner
- K13 how to maintain sample integrity (to include flushing through; draining down; venting off)
- K14 the consequences of not following the sampling procedure
- K15 the reasons for not taking samples according to schedule

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

Sample container types within your work area e.g.:

- 11 Bottles
- 12 Cans
- 13 Bladders
- 14 Drums
- 15 Flasks
- 16 Chemical detector tubes
- 17 Bombs

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Developed by Cogent

Version number 1

Date approved October 2009

Indicative review date October 2011

Validity Current

Status Original

Originating organisation Cogent

Original URN DO6

Relevant occupations Engineering and manufacturing technologies; Engineering; Process, Plant and Machine Operatives; Plant and Machine Operatives

Suite Downstream Operations

Key words contribute, prepare, take, provide, samples, analysis
