

## COGBLO4 - SQA Unit Code FA6W 04

Provide product control information for bulk liquid operations



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### Overview

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

This unit deals with the following:

- 1 Taking samples
- 2 Taking measurements and performing calculations
- 3 Blending and adding materials

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 Bulk Liquid Warehousing NOS - July 2001

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#### Performance criteria

- You must be able to:*
- P1 properly obtain containers appropriate for the sample material
  - P2 properly obtain and use appropriate PPE
  - P3 accurately identify the location of the nearest safety equipment
  - P4 take samples using the appropriate specified method
  - P5 effectively minimise the potential hazards according to the nature of the sample
  - P6 ensure that the integrity of the sample is maintained
  - P7 ensure that the sample is fully identified by recording and labelling and promptly taken to the designated point
  - P8 correctly reinstate source conditions
  - P9 ensure that the measurement equipment is fit for purpose before and after use
  - P10 effectively maintain the integrity of the product and environmental conditions throughout
  - P11 correctly take and record measurements
  - P12 accurately perform all calculations
  - P13 accurately and fully investigate all unexpected results
  - P14 confirm that the correct quantities are available
  - P15 ensure that the prepared materials are stored and labelled as appropriate
  - P16 effectively avoid contamination of all mixing and handling equipment and preparation area
  - P17 correctly add the materials to product
  - P18 communicate all relevant information to the appropriate people
  - P19 work safely in accordance with operational requirements

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#### Knowledge and understanding

*You need to know and understand:*

- K1 the range of activities relevant to the workplace
- K2 how to select, use and care for PPE (e.g. sight/hearing protection, gloves, footwear, hard hats, respirators)
- K3 the implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- K4 how to interpret operational requirements (e.g. policies, procedures, instructions, codes of practice, standards, schedules)
- K5 the importance of well maintained equipment
- K6 the different types of containers used and their specific uses
- K7 how to reinstate source conditions (e.g. re-establish equipment integrity, re-instate nitrogen blanket)
- K8 how to ensure that the measurement equipment (e.g. dip tape, weigh-scales, thermometers, gauges, meters) is fit for purpose (e.g. calibration, condition, capability, range) both before and after measurement (e.g. cleaning)
- K9 how to perform the relevant calculations (e.g. use of industry/HMC&E approved formulae, appropriate calibration charts, data accuracy e.g. product temperature, product temperature, dip and ullage measurements, weight measurements)
- K10 how to recognise and deal with unexpected results
- K11 how to re-instate source conditions (e.g. close dip-hatch, re-instate nitrogen blanket)
- K12 the units in which the materials are measured
- K13 the principles of contamination avoidance
- K14 how to deal with spillage
- K15 how to conform with, and respond to, relevant specifications and regulations (e.g. relating to the quality, dilution and quantities of the material)
- K16 the information to communicate (e.g. written, verbal, electronic) and to whom

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#### **Additional Information**

##### **Scope/range**

1. The range of activities relevant to the workplace
2. How to select, use and care for PPE (e.g. sight/hearing protection, gloves, footwear hard hats, respirators)
3. The implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
4. How to interpret operational requirements (e.g. policies, procedures, instructions, codes of practice, standards, schedules)
5. The information to communicate (e.g. written, verbal, electronic) and to whom

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**Status** Original

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**Originating organisation** Cogent

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

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**Suite** Bulk Liquid Operations

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**Key words** provide, product control, information, taking, samples, measurements, calculations, blending, adding, materials