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## Overview

This standard covers the competences you need to provide product control for bulk liquid operations

You will be required to demonstrate that you can take samples, measurement and perform calculations, blending and adding materials in accordance with authorised procedures.

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

The activity is likely to be undertaken by someone in petrochemical work setting, including individuals working in refineries, chemical plants and tank storage.

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## Performance criteria

### *You must be able to:*

P1 obtain containers appropriate for the sample material

P2 select 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
- K3 the implications of statutory and organisational requirements
- K4 how to interpret operational requirements
- K5 the importance of well maintained equipment
- K6 the different types of containers used and their specific uses
- K7 how to reinstate source conditions
- K8 how to ensure that the measurement equipment is fit for purpose both before and after measurement
- K9 how to perform the relevant calculations
- K10 how to recognise and deal with unexpected results
- K11 how to re-instate source conditions
- 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
- K16 the information to communicate and to whom
- K17 current health, safety and environmental regulations and working practices relevant to the job role

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## Scope/range

Carry out all of the following during preparing pipelines and hoses within bulk liquid operations

Equipment:

- Hoses
- Portable pumps
- Portable valves
- Filters

Infrastructure:

- Tanks
- Pipework
- Pumps
- Valves
- Gauges
- Buildings

Personal Protective Equipment (PPE):

- Sight protection
- Overalls
- Hearing protection
- Gloves
- Hard Hat
- Footwear
- Respirators
- High visibility clothing High visibility clothing

Statutory Regulations:

- Health and Safety at Work Act (HASAWA)
- Control of Substances Hazardous to Health (COSHH)

- Other regulations and working practices relating to the job role and product characteristics

#### Organisational Requirements:

- Policies
- Procedures
- Instructions
- Codes of practice
- Standards
- Schedules

#### Inspection:

- Routine
- Observed problems
- Distress
- Damage
- Poor functionality

#### Signs of distress and damage and poor functioning:

- Physical damage
- Corrosion
- Leakage
- Joint distortion
- Out of date certification

#### Appropriate authority:

- Location
- Extent
- Possible causes

Storage conditions:

- Excess water

Cleaning:

- Filters
- Isolating
- Disconnecting
- Disassembling

Communication:

- Written
- Verbal
- Electronic

COGBLO4

Provide product control information for bulk liquid operations



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