

## Overview

This standard covers the competences you need to prepare pipelines and hoses within bulk liquid operations.

You will be required to demonstrate that you can rig lines, set valves and fill the pipeline or hose with product, enabling the displacement of the product 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.

## Performance criteria

### *You must be able to:*

- P1 use safe lifting and moving techniques
- P2 ensure that rigging equipment used conforms to the job specification
- P3 correctly make all connections
- P4 correctly set all valves
- P5 correctly fill the appropriate pipelines or hoses
- P6 vent the air and vapour as appropriate
- P7 ensure that all relevant valves are checked and set correctly
- P8 check the integrity of pipelines or hoses
- P9 ensure that the displacement medium, equipment and techniques are appropriate
- P10 ensure that confirmation is received regarding ullage and any other relevant tank movements
- P11 effectively set and secure the pipelines or hoses
- P12 ensure that the amount of product remaining on completion is within given limits
- P13 communicate all relevant information to the appropriate people
- P14 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
- K2 the implications of statutory regulations and organisational requirements
- K3 how to interpret operational requirements
- K4 the signs of pressure problems in pipelines and hoses
- K5 the cases of pressure problems in pipelines and hoses
- K6 the types and principles of use, of rigging equipment
- K7 how to make connections
- K8 how to interpret signs and symbols used to denote hose test conditions
- K9 fastening requirements and tightening techniques
- K10 how and when to vent air and vapour
- K11 how and when to recover vapour
- K12 how to check the integrity of pipelines
- K13 the causes and signs of pressure problems
- K14 how to de-pressurise pipelines and hoses
- K15 the causes and signs of pressure problems
- K16 the information to communicate and to whom
- K17 current health, safety and environmental regulations and working practices relevant to the job role

## 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)

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- 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

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**Suite** Bulk Liquid Operations

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