

## Overview

This standard covers the competences you need to clean and clear bulk liquid storage tanks

You will be required to demonstrate that you can prepare for the cleaning of storage tanks, cleaning and clearing tanks of any 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 correctly empty the tank in accordance with work instructions
- P2 report any difficulties in emptying to the appropriate person
- P3 ensure removal of vapour in accordance with targets
- P4 safely transfer the residues to the appropriate locations and containers
- P5 safely apply neutralising agents where appropriate
- P6 use safe lifting and moving techniques
- P7 ensure that the containers for transfer or holding of residual product are appropriately marked
- P8 effectively notify the appropriate person on completion of activity
- P9 ensure that you have the appropriate permits, method statements and risk assessments
- P10 obtain appropriate confirmation that tank is sufficiently free of product and vapour to proceed
- P11 ensure that the tank is appropriately and securely isolated prior to and during internal working
- P12 ensure that the work area is clear of unauthorised personnel before cleaning commences
- P13 correctly perform cleaning and clearing operations
- P14 ensure safe and efficient use of equipment
- P15 communicate all relevant information to the appropriate people
- 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
- K2 the implications of statutory and organisational requirements
- K3 how to interpret operational requirements
- K4 the appropriate product levels to allow emptying to begin
- K5 when and how to transfer product
- K6 how to interpret information on vapour removal targets
- K7 the range of de-gassing techniques available to you and how to apply them
- K8 the principles of siting equipment for maximum removal of vapour and equipment operation
- K9 how and why to use neutralising agents
- K10 how to minimise contact during residue transfer
- K11 safe lifting and moving techniques
- K12 the information required on the containers
- K13 disposal requirements and locations
- K14 how to work with and within the permit system
- K15 how to ensure that the tools and equipment are fit for purpose
- K16 the importance of secure isolation
- K17 the safety requirements specific to internal working
- K18 the range of available cleaning agents and techniques
- K19 how to identify signs of tank damage and distress
- K20 the information to communicate and to whom
- K21 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

Statutory Regulations:

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

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(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

## Clean and clear bulk liquid storage tanks

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### Storage conditions:

- Excess water

### Cleaning:

- Filters
- Isolating
- Disconnecting
- Disassembling

### Communication:

- Written
- Verbal
- Electronic

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