

# COGBLO7

## Clean and clear bulk liquid storage tanks



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### Overview

This unit deals with the following:

- 1 Preparing for the cleaning of storage tanks
- 2 Cleaning and clearing tanks of product

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 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

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### 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 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 (e.g. convection, steam evaporation, flushing with gas, flushing with water) and how to apply them
- K8 the principles of siting equipment (e.g. tank construction, product characteristics, vapour removal method, weather conditions) 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 (e.g. Confined Spaces Regulations)
- K18 the range of available cleaning agents and techniques
- K19 how to identify signs of tank damage and distress (e.g. debris, surface corrosion, lining damage, cracking)
- K20 the information to communicate (e.g. written, verbal, electronic) and to whom

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### Additional Information

#### Scope/range

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

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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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