

Unit ID 1816

Domain

**WATER SUPPLY AND SANITATION
OPERATIONS**

Title:

Use a vacuum tanker

Level: 2

Credits: 6

Purpose

This unit standard is intended for Operators or Artisans in the Water Supply and Sanitation Sector. People credited with this unit standard will be able to:

- Prepare to use a vacuum tanker
- Operate a vacuum tanker
- Complete vacuum tanker operations

Special Notes

1. Entry information

Prerequisite:

- *Unit 1814 Demonstrate knowledge of the water environment*
- *Unit 844 Provide general first aid*
- *Unit 1157 Demonstrate basic knowledge of workplace health and safety*

2. This unit standard should be delivered and assessed in the context of the water supply and sanitation sector operations and be further assessed in conjunction with other relevant technical units selected from this domain

3. In the context of this unit standard, a vacuum tanker is used mainly to clean out conservancy and septic tanks, oxidation ponds and dry sanitation facilities.

4. The evidence required to demonstrate competency in this unit must be relevant to workplace operations.

5. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' guidelines and instructions

6. Regulations and legislation relevant to this unit standard include the following:

- Water Resources Management Act, 2013 (Act No.11 of 2013).
- Labour Act, 2007 (Act No.11 of 2007) in conjunction with Regulation 156, 'Regulations Relating to the Health and Safety of Employees at work'

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and

moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority and the Namibia Training Authority on www.nta.com.na.

Elements and Performance Criteria

Element 1: Prepare to use a vacuum tanker

Range

Health and safety requirements in particular refer to hazards of working in a sewerage system or small-scale sewage treatment facility

Performance Criteria

- 1.1 Work instructions, programme, specifications, legislation, quality requirements and operational details are demonstrated, confirmed and applied in line with workplace procedures.
- 1.2 Health and safety requirements are implemented in line with safe workplace procedures.
- 1.3 Signage requirements are implemented in line with workplace procedures.
- 1.4 A vacuum tanker, tools and equipment are selected and pre-use inspections carried out in accordance with manufacturer's guidelines and workplace procedures.
- 1.5 Faults are either rectified or reported in line with workplace procedures.
- 1.6 Environmental protection requirements are identified and applied in line with workplace procedures to minimise the risk of damage to the surrounding area where the work is undertaken.

Element 2: Operate a vacuum tanker

Range

Start-up checks to prepare the work site to operate the vacuum tanker include siting the vacuum tanker, connecting hoses, arranging power supply if required, arranging water supply.

Performance Criteria

- 2.1 The equipment is transported to the site where the sludge will be removed.
- 2.2 The start-up checks to prepare the work site to operate the vacuum tanker are demonstrated in accordance with the work instructions given.
- 2.3 The work skills required to start, stop, control and dismantle the vacuum tanker are demonstrated.

- 2.4 The water jetting equipment is operated and monitored according to work instructions.
- 2.5 Problem solving is demonstrated where the vacuum tanker fails to remove the sludge, and remedial action is carried out.
- 2.6 Test results are recorded and reported in line with workplace procedures.

Element 3: Complete vacuum tanker operations

Performance Criteria

- 3.1 The work and surrounding area is cleared and materials disposed of or recycled in line with workplace procedures.
- 3.2 The tanker is emptied in a designated licenced sludge disposal site and cleaned in accordance with the manufacturers' recommendations and workplace procedures.
- 3.3 Plant, tools and equipment are returned to the workshop and checked, maintained and parked in line with manufacturers' recommendations and workplace procedures.
- 3.4 Work completion details are performed and finalised in line with workplace procedures.

Registration Data

Field:	Physical Planning and Construction
Subfield:	Water Supply and Sanitation
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