

	Unit ID: 1129
Domain	HEAVY EQUIPMENT OPERATIONS
Title:	Carry out surface mining and quarrying activities using a water truck
Level: 3	Credits: 10

Purpose

This unit standard is intended for those who work in surface mining and quarrying operations. People holding credit for this unit standard are able to: Plan and prepare for work; demonstrate knowledge of the functions of a water truck; start and shut down water truck; haul and distribute water; complete work related documents; and clean up work area.

Being credited with this unit standard does not enable a person to drive the vehicle on an open, public road. In order to do so, a person must be in possession of a valid and current driving licence relevant to this vehicle type.

Special Notes

1. Entry information:

Prerequisite

- Unit 1113 - *Comply with health, safety and environmental rules and regulations pertaining to heavy equipment operations*

2. Expected worksite production target are to be met.
3. Assessment evidence may be collected from a real workplace or a simulated workplace in which surface mining and quarrying operations are carried out.
4. The credit allocated for this unit standard assumes that the candidate has the required driving licence.
5. Equipment, tools and material may include but are not limited to machine attachments, personal protective equipment, safety signs, fuel, specified oil and lubricants, and accessory tools.
6. Maintenance may include but is not limited to cleaning, authorised servicing and the monitoring, recording and reporting of faults. It may also include the conduct of authorised minor replacements and the provision of assistance to maintenance and repair activities.
7. Safe working practices include but are not limited to day-to-day observation of safety policies and procedures, and compliance with emergency procedures.
8. Performance of all elements in this unit standard must comply with all relevant legal and workplace requirements, contractual agreement and/or manufacturers' specifications.
9. Regulations and legislation, including subsequent amendments, relevant to this unit standard may include but are not limited to the following:
 - Labour Act, No. 11 of 2007

- Regulations relating to the Health and Safety of employees at work, 1997
- Road Traffic and Transport Regulations No. 52, 1999
- Government Notice No 53 Road Traffic and Transport Regulations and industry specific regulations, legislations, code of practice, or code of conduct.

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: Plan and prepare for work

Performance Criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, explained, clarified and applied to the allocated task.
- 1.2 Safety requirements including personal protective clothing and equipment are obtained from the site safety plan, workplace policies and procedures, and applied to the allocated task.
- 1.3 On- and off-site traffic control requirements are obtained and implemented in line with workplace requirements.
- 1.4 Plant, tools, fuel, lubricants, equipment, attachments and accessories selected to carry out tasks are checked for consistency with the requirements of the job, their usability and any faults rectified or reported prior to commencement of work.
- 1.5 Environmental protection requirements are identified from the project environmental management plan and applied to the allocated task.

Element 2: Demonstrate knowledge of the functions of a water truck

Performance Criteria

- 2.1 The main functions of water trucks are explained in terms of surface mining and quarrying processes.
- 2.2 The operation of all major components is explained in terms of their functions.
- 2.3 Safety features and warning devices on the water truck are identified, and their purposes explained in accordance with manufacturers' specifications.

- 2.4 The maximum operating capacities and efficiencies are explained in terms of the specific water truck capabilities in accordance with manufacturers' specifications.
- 2.5 Warnings from water truck indicators and gauges are explained according to manufacturers' specifications.
- 2.6 Corrective actions are described or demonstrated in terms of responses to warnings received.

Element 3: Start and shut down water truck

Performance Criteria

- 3.1 Pre-operational checks are carried out according to appropriate checklist and workplace procedures.
- 3.2 Daily and weekly operator maintenance is performed according to appropriate checklist and workplace procedures.
- 3.3 Start-up and shutdown procedures are followed according to manufacturer's specifications.
- 3.4 Operating hours are recorded, if required, in accordance with workplace requirements.
- 3.5 Water truck maintenance and faults are reported in accordance with workplace requirements.

Element 4: Haul and distribute water

Performance Criteria

- 4.1 Work instructions are obtained and confirmed in line with workplace procedures.
- 4.2 Fill up the water truck with water according to the work instruction and manufacturer's specifications.
- 4.3 Water is transported to the site.
- 4.4 Water distribution is done effectively according to instructions, contractual requirements, set standards and manufacturers' specifications and corrective actions are taken when required.
- 4.5 Hazards specific to operating water trucks and ways to minimise these are explained in terms of potential damage to water truck and property, and injury to people.

Element 5: Complete work related documents

Performance Criteria

- 5.1 Work related documents are completed in accordance with contract and workplace requirements.
- 5.2 Maintenance and service related documents are completed in accordance with manufacturer and workplace requirements.
- 5.3 Documents related to accidents or other incidents are completed in accordance with workplace requirements.

Element 6: Clean up work area

Performance Criteria

- 6.1 Work area is cleared and materials disposed of or recycled in accordance with project environment management plan.
- 6.2 Plant, tools and equipments are cleaned, checked, maintained, serviced and stored in accordance with manufacturers' recommendations and standard work practices.
- 6.3 Unused materials are safely stored and stacked for future use.

Registration Data

Subfield:	Surface Mining and Quarrying
Date first registered:	27 March 2013
Date this version registered:	27 March 2013
Anticipated review:	2016
Body responsible for review:	Namibia Training Authority