

Domain	HEAVY EQUIPMENT OPERATIONS	Unit ID: 1122
Title:	Carry out surface mining and quarrying activities using an articulated haulage truck	
Level: 3		Credits: 28

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 an articulated haulage truck; start and shut down articulated haulage truck; haul and tip material; complete work related documents; and clean up work area.

Special Notes

1. Entry information:
 - Prerequisite
 - Unit 1113 - *Comply with health, safety and environmental rules and regulations pertaining to heavy equipment operations*
2. *'Articulated haulage truck'* refers to heavy off-road dump trucks used in surface mining and quarrying.
3. Expected worksite production target are to be met.
4. Assessment evidence may be collected from a real workplace or a simulated workplace in which surface mining and quarrying operations are carried out.
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 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-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 an articulated haulage truck

Performance Criteria

- 2.1 The main functions of articulated haulage 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 haulage 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 haulage truck capabilities in accordance with manufacturers' specifications.
- 2.5 Warnings from haulage 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 articulated haulage 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 Haulage truck maintenance and faults are reported in accordance with workplace requirements.

Element 4: Haul and tip material

Performance Criteria

- 4.1 Work instructions are obtained and confirmed in line with workplace procedures.
- 4.2 The load is checked as being balanced and within loading capacity of the articulated haulage truck according to work instructions and manufacturer's specifications.
- 4.3 Material is transported to the designated site.
- 4.4 Material is off loaded according to work instructions and workplace procedures.
- 4.5 Articulated haulage truck is operated without risk of damage or loss to haulage truck or property, third party, or injury to people.
- 4.6 Hauling and tipping operations are integrated with other on-site activities.
- 4.7 Hazards specific to operating articulated haulage trucks and ways to minimise these are explained in terms of potential damage to haulage 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
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