

		Unit ID: 1111
Domain	HEAVY EQUIPMENT OPERATIONS	
Unit Title:	Implement environmental initiatives as part of surface mining and quarrying operations	
Level: 2	Credits: 4	

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: Demonstrate knowledge of the impact of surface mining and quarrying activities on the environment; and implement environmental management initiatives during surface mining and quarrying activities.

Special Notes

1. *'Environment'* refers to the physical environment and natural resources, as well as social-cultural issues and the interaction of the aforementioned with economic systems.
2. Assessment evidence may be collected from a real workplace or a simulated workplace in which heavy equipment operations are carried out.
3. Safe working practices are to include day to day observation of safety policies and procedures and compliance with emergency procedures.
4. Performance of all elements in this unit standard must comply with all relevant workplace requirements, contractual agreements and/or manufacturers' specifications.
4. 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. All approved unit standards, qualifications and national assessment arrangements are available on the Namibia Training Authority website www.nta.com.na.

Elements and Performance Criteria

Element 1: Demonstrate knowledge of the impact of surface mining and quarrying activities on the environment

Performance Criteria

- 1.1 Impacts of surface mining and quarrying activities on the environment are outlined.
- 1.2 The benefits and importance of environmentally oriented surface mining and quarrying activities are explained.
- 1.3 The purpose of the environmental impact assessment, as well as the environmental management plan are described.
- 1.4 The importance of material sustainability is explained.
- 1.5 Socio-cultural values and perceptions with regard to mining materials, energy and mining methods are described.
- 1.6 Knowledge of pre- and post-surface mining and quarrying environmental management initiatives is demonstrated.

Element 2: Implement environmental management initiatives during surface mining and quarrying activities

Performance Criteria

- 2.1 Surface mining and quarrying based pollution reduction measures are implemented in line with workplace procedures and legislative requirements.
- 2.2 Disease prevention and hygiene measure are implemented in line with workplace procedures and legislative requirements.
- 2.3 Measures to conserve water and energy are implemented in line workplace procedures.
- 2.4 Surface mining and quarrying activities are carried out in accordance with environmental management plan and legislative requirements.

Registration Data

Subfield:	Surface Mining and Quarrying
Date first registered:	27 March 2013
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