

	Unit ID: 1116
Domain	HEAVY EQUIPMENT OPERATIONS
Title:	Work around energy sources as part of surface mining and quarrying activities
Level: 2	Credits: 5

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; communicate with co-workers on site; work around energy sources; 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. Assessment evidence may be collected from a real workplace or a simulated workplace in which surface mining and quarrying operations are carried out.
3. Safe working practices include but are not limited to 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 legal and workplace requirements, contractual agreement and/or manufacturers' specifications.
5. 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, safety signs, warning signals and equipment are obtained from the site safety plan, workplace policies and procedures, and applied to the allocated task.
- 1.3 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.

Element 2: Communicate with co-workers on site

Range

Communication may include but is not limited to verbal and/or two-way radio contact.

Performance Criteria

- 2.1 Communication channels are established and maintained.
- 2.2 Hand signals are used in line with workplace procedures.
- 2.3 Audible signals are used and responded to in line with workplace procedures.

Element 3: Work around energy sources

Range

Energy sources may include but are not limited to compressed air; steam; electricity including overhead lines; combustible gases such as propane and acetylene; and explosives.

Performance Criteria

- 3.1 Authorised and safe location are identified according to workplace procedures.
- 3.2 Blind spots are identified and avoided.
- 3.3 Energy sources are identified.
- 3.3 Safe working distance to energy sources is maintained.
- 3.4 Nature of work is carried out according to allocated task and workplace requirements.

- 3.5 Hazards or potentially hazardous conditions are reported to designated personnel in line with workplace procedures.

Element 4: Complete work related documents

Performance Criteria

- 4.1 Work related documents are completed in accordance with contract and workplace requirements.
- 4.2 Maintenance and service related documents are completed in accordance with manufacturer and workplace requirements.
- 4.3 Documents related to accidents or other incidents are completed in accordance with workplace requirements.

Element 5: Clean up work area

Performance Criteria

- 5.1 Work area is cleared and materials disposed of or recycled in accordance with project environment management plan.
- 5.2 Tools and equipments are cleaned, checked, maintained, serviced and stored in accordance with manufacturers' recommendations and standard work practices.
- 5.3 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
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Body responsible for review:	Namibia Training Authority