

Unit ID: 1476

Domain Title: METALLURGICAL PROCESSING - CORE
Demonstrate mechanical awareness and plant appreciation as part of processing operations

Level: 2

Credits: 3

Purpose

This unit standard is intended for those who carry out metallurgical processing operations. People holding credit for this unit standard are able to: Demonstrate knowledge of pre-operational checks; demonstrate knowledge of plant and equipment operation; and demonstrate knowledge of operator maintenance.

Special Notes

1. Assessment evidence may be collected from a real workplace or a simulated workplace in which processing operations are carried out.
2. This unit standard should be assessed in conjunction with other relevant technical unit standards selected from the metallurgical processing, mineral processing, hydrometallurgy, or pyrometallurgy domain.
3. Performance of all elements in this unit standard must comply with relevant regulatory, legislative, workplace requirements 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, 2007
 - Mineral Act, No. 33, 1992
 - Mine Health and Safety Regulations, 1999
 - Regulations relating to the Health and Safety of employees at work, 1997 and all 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 pre-operational checks

Performance Criteria

- 1.1 Workplace hazards and associated risks are described.
- 1.2 Principles of pre-operational and post-operational checks are explained.
- 1.3 Principle function of controls and gauges and their adjustments are described.
- 1.4 Standard start-up and shutdown procedures are described according to manufacturer's specifications.

Element 2: Demonstrate knowledge of plant and equipment operation

Performance Criteria

- 2.1 Workplace hazards and associated risks are described.
- 2.2 Reasons for monitoring the operation and/or performance of plant and equipment are explained.
- 2.3 Knowledge of corrective and/or reporting actions are described in accordance with workplace procedures

Element 3: Demonstrate knowledge of operator maintenance

Performance Criteria

- 3.1 Workplace hazards and associated risks are described.
- 3.2 Knowledge of procedures for isolation and lock-out according to level of responsibility are described.
- 3.3 Documents, checklists, and reporting lines relevant to operator maintenance are described in accordance with workplace procedures.

Registration Data

Subfield:	Metallurgy
Date first registered:	28 September 2016
Date this version registered:	28 September 2016
Anticipated review:	2021
Body responsible for review:	Namibia Training Authority