

Unit ID: 1481

Domain
Title:

METALLURGICAL PROCESSING - CORE
**Demonstrate knowledge of interlock and
shut down sequence**

Level: 3

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 preparing for safe shut down and isolation; demonstrate knowledge of safe shut down; demonstrate knowledge of safe isolation; and demonstrate knowledge of completing safe shut down and isolation.

Special Notes

1. Entry information:

Prerequisite

- 1449 - *Comply with health, safety and environmental rules and regulations pertaining to processing operations; or demonstrated equivalent knowledge and skills.*

2. Assessment evidence may be collected from a real workplace or a simulated workplace in which processing operations are carried out.

3. 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.

4. Safe working practices include day-to-day observation of safety policies and procedures and compliance with emergency procedures.

5. Specifications refer to any, or all of the following: manufacturer's specifications and recommendations, and workplace specific requirements.

6. Performance of all elements in this unit standard must comply with relevant regulatory, legislative, workplace requirements and/or manufacturers' specifications.

7. 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 preparing for safe shut down and isolation

Performance Criteria

- 1.1 Work instructions, including plans, quality requirements, handling procedures and operational details are described.
- 1.2 Safety and security requirements, including personal protective clothing and equipment are described.
- 1.3 Equipment, tools, and accessories to carry out tasks are described.
- 1.4 Environmental protection requirements are described in accordance with the project environmental management plan.

Element 2: Demonstrate knowledge of safe shut down

Performance Criteria

- 2.1 Possible workplace hazards and associated risks are described.
- 2.2 Knowledge of the operational function of machine and/or equipment is demonstrated.
- 2.3 Safe shut down sequence is described.
- 2.4 Procedures for depressurising, emptying, de-energising of machine and/or equipment is described.

Element 3: Demonstrate knowledge of safe isolation

Performance Criteria

- 3.1 Possible workplace hazards and associated risks are described.
- 3.2 Isolation methods and points are described.
- 3.3 Way of undertaking isolation safely is described.
- 3.4 Installation of safety and/or security lock-off devices and signage are described.

Element 4: Demonstrate knowledge of completing safe shut down and isolation

Housekeeping may include but is not limited to ensure the work area is ready for next user; remove work materials to designated locations; correctly identify waste and re-usable material; and remove waste and re-usable materials to designated locations.

Performance Criteria

- 4.1 Maintenance and storing procedures of task-specific tools, personal protective and safety equipment, are described.
- 4.2 Good housekeeping practices are described.
- 4.3 Reporting and recording requirements are described.
- 4.4 Work related documents to be completed are described.

Registration Data

Subfield:	Metallurgy
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