

Unit ID: 1467

Domain METALLURGICAL PROCESSING - CORE
Title: Demonstrate knowledge of activities
related to metallurgical processing

Level: 1

Credits: 18

Purpose

This unit standard is intended for those who wish to enter into employment in the metallurgical processing industry. People holding credit for this unit standard are able to: Demonstrate knowledge of common processes in a metallurgical process plant; and identify the primary risks associated with common processes in a metallurgical process plant.

Special Notes

1. This unit standard requires the learner to study and investigate process descriptions and process flow diagrams of different metallurgical process operations. Therefore, authentic evidence must be provided in form of a Portfolio of Evidence (PoE). The PoE must comprise of process description and process flow diagrams of at least three (3) different metallurgical process operations.
2. 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 common processes in a metallurgical process plant

Performance Criteria

- 1.1 Methods and applications in size reduction are described.
- 1.2 Methods and applications in classification are described.
- 1.3 Methods and applications in beneficiation are described.
- 1.4 Methods and applications of chemical processing techniques are described.
- 1.5 Methods and applications of dewatering processes are described.
- 1.6 Methods and applications of high temperature metallurgical processes are described.
- 1.7 Methods and applications of refining processes are described.
- 1.8 Methods and applications of the material transport processes are described.

Element 2: Identify the primary risks associated with common processes in a metallurgical process plant

Performance Criteria

- 2.1 Primary risks for common processes are identified.
- 2.2 Preventative and mitigation measures are described in accordance with legislative requirements.

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