

**Unit ID: 1449**

**Domain  
Title:**

**METALLURGICAL PROCESSING - CORE  
Comply with health, safety and  
environmental rules and regulations  
pertaining to processing operations**

**Level: 2**

**Credits: 6**

### **Purpose**

This unit standard is intended for those who carry out metallurgical processing operations. People holding credit for this unit standard are able to: Identify and control potential hazards at the workplace; follow safe work procedures; and follow emergency procedures.

### **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. Safe working practices include day-to-day observation of safety policies and procedures and compliance with emergency procedures.
4. Specifications refer to any, or all of the following: manufacturer's specifications and recommendations, and workplace specific requirements.
5. Performance of all elements in this unit standard must comply with relevant regulatory, legislative, workplace requirements and/or manufacturers' specifications.
6. 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
  - Public and Environmental Health Act, No. 1, 2015
  - 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](http://www.nta.com.na).

## **Elements and Performance Criteria**

### **Element 1: Identify and control potential hazards at the workplace**

#### **Range:**

Potential hazards may include but are not limited to physical; chemical; mechanical; radiation; ergonomically; and biological.

#### **Performance Criteria**

- 1.1 Potential hazards are identified, removed, reduced, and/or reported in line with workplace safety procedures.
- 1.2 The implications of exposure to hazards and hazardous substances are described in terms of consequences for self, third parties, plant and work operations, and the environment.

### **Element 2: Follow safe work procedures**

#### **Range:**

Personal protective equipment may include but is not limited to overalls; steel capped boots; safety glasses or goggles; high visibility vest; jacket; hard hat; gloves; ear plugs; and dust masks.

Signs may include but are not limited to hazard identification; facility or location signs; site safety; traffic directions; warning signs and symbols.

#### **Performance Criteria**

- 2.1 The health and safety site plan is referenced to and followed in line with workplace requirements.
- 2.2 Rights, duties and obligations of employees and employers with respect to adherence to work safety are followed.
- 2.3 Personal protective equipment is selected, used and stored according to workplace and/or job requirements.
- 2.4 Knowledge of permit to work and isolation and lock-out procedures are demonstrated.
- 2.5 Tasks are performed in a safe manner and in accordance with workplace requirements, policies and procedures.
- 2.6 Safety signs and symbols are identified and followed in line with workplace procedures.
- 2.7 Plant and equipment guards are used in accordance with manufacturers' specifications.

- 2.8 Safe manual handling procedures are implemented in line with workplace procedures.
- 2.9 Procedures for the safe handling, storage and removal of chemicals, fuel, gases and other hazardous materials are identified and implemented in line with workplace requirements.

**Element 3: Follow emergency procedures**

**Range:**

Emergencies may include but are not limited to accidents; fire; spillage; and injuries.

**Performance Criteria**

- 3.1 Procedures for the identification of emergencies are followed.
- 3.2 Procedures for dealing with accidents, fire, spillage and injuries are followed.
- 3.3 Emergencies are reported in accordance with workplace requirements and procedures for reporting and recording.
- 3.4 Fire extinguishers, hoses, alarms and other equipment are identified and used in accordance with specifications.
- 3.5 Procedures for securing a serious accident site and potential evidence are applied.
- 3.6 Procedures for reporting and recording illness and injuries are followed.

**Registration Data**

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