

Unit ID: 1450

**Domain** METALLURGICAL PROCESSING - CORE  
**Title:** Demonstrate knowledge of hazardous substances at a metallurgical plant

**Level: 2**

**Credits: 5**

### 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 the nature of hazardous substances and their potential effects; and interpret written information for hazardous substances on labels and material safety data-sheets.

### Special Notes

1. This unit standard is primarily intended for assessment in classroom-based programmes, but can be assessed in other contexts, such as workplaces.
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](http://www.nta.com.na).

## Elements and Performance Criteria

### Element 1: Demonstrate knowledge of the nature of hazardous substances and their potential effects

#### Performance Criteria

- 1.1 The forms hazardous substances can take are explained in relation to solid, liquid, and gaseous forms.

- 1.2 The difference between toxic substances and dangerous goods are described in terms of personal health and workplace safety, both short and long-term.
- 1.3 The routes of entry into the body are explained in relation to inhalation, absorption, and ingestion.
- 1.4 The exposure to hazardous substances and their entry into the body are discussed in relation to the injury outcomes.

**Element 2: Interpret written information for hazardous substances on labels and material safety data-sheets**

**Performance Criteria**

- 2.1 Labels are interpreted in terms of their requirements; wording; colour coding; UN (United Nations) numbers; risk class; symbols; and subsequent action.
- 2.2 Material safety data-sheets are located in the workplace and interpreted in terms of their impact on a metallurgical plant.
- 2.3 Type and location of personal protective equipment from hazardous substances of the workplace are identified.

**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