Purpose

This unit standard is intended for those who carry out metallurgical processing operations. People holding credit for this unit standard are able to: Describe the effect of a human activity on the environment; demonstrate knowledge of the effect on the environment, of activities and practices in a metallurgical plant; and promote actions within the workplace that help to sustain and improve the environment.

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
   - 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
Elements and Performance Criteria

Element 1: Describe the effect of a human activity on the environment

Range:

Environment includes water; coast; air; land; minerals; plants; and animals.

Human activities may include but are not limited to energy use; processing systems; waste management; and bio-security.

Performance Criteria

1.1 Knowledge of practices that minimise the effect of human activity on the environment is demonstrated.

1.2 The effect of environmental legislation on the mining industry is described in terms of enhancing sustainable environmental management.

Element 2: Demonstrate knowledge of the effect on the environment, of activities and practices in a metallurgical plant

Performance Criteria

2.1 Workplace activities that affect the environment are identified, and the effect of each is described.

2.2 Workplace practices that minimise any negative environmental effect of each activity described above are identified, and the way the effect is minimised is described.

2.3 Legislation, regulations and codes of practice that apply to the workplace are identified, in terms of their effect on the environment.

Element 3: Promote actions within the workplace that help to sustain and improve the environment

Range

Negative environmental effects may include but are not limited to energy use; air pollution; noise; waste management; contamination; and processing systems.

Performance Criteria

3.1 Practices that minimise negative environmental effects and contribute to sustainable environmental management are applied in the workplace.

3.2 Improvements to workplace practices and procedures are recommended in terms of their contribution to sustainable management outcomes.
## Registration Data

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