

Unit ID: 1482

Domain METALLURGICAL PROCESSING - CORE
Title: Use and maintain portable engineering
power tools

Level: 2

Credits: 4

Purpose

This unit standard is intended for those who carry out metallurgical processing operations. People holding credit for this unit standard are able to: Create a safe worksite; select and use portable engineering power tools; and maintain portable engineering power tools.

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. Evidence is required for the selection, use and maintenance of at least four portable power tools relevant to the working environment. These may be powered by electric, pneumatic or hydraulic sources.

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: Create a safe worksite

Range:

Hazards may include but is not limited to electric shock; noise; presence of sharp and/or hot particles; dust; moving parts; cutting tools; and storage energy.

Safeguards may include but are not limited to residual current devices; isolating transformers; monitored-earth circuits; and double insulated tools.

Performance Criteria

- 1.1 Hazards associated with portable engineering power tool use are identified in accordance with portable tool type and workplace procedures.
- 1.2 Electrically operated portable engineering power tools are used in conjunction with appropriate electrical safeguards to reduce risk of electrocution in accordance with workplace procedures.
- 1.3 Safe work practice eliminates, isolates and/or minimises hazards in accordance with workplace procedures.

Element 2: Select and use portable engineering power tools

Performance Criteria

- 2.1 Portable engineering power tools are selected for the task in accordance with workplace procedures.
- 2.2 Portable engineering power tools are used to meet task requirements in accordance with manufacturer's specifications and workplace procedures.

Element 3: Maintain portable engineering power tools

Performance Criteria

- 3.1 Portable engineering power tools are inspected for damage and faults and supervisor advised in accordance with workplace procedures.

- 3.2 Portable engineering power tools are serviced and stored in accordance with workplace procedures.

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