

Unit ID: 1495

Domain Title: METALLURGICAL PROCESSING - CORE
Perform calibration checks on laboratory equipment

Level: 3

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: Perform setup and pre-use checks of laboratory equipment; perform calibration checks; and assist with equipment maintenance.

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.

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 and national assessment arrangements are available on the Namibia Training Authority website www.nta.com.na.

Elements and Performance Criteria

Element 1: Perform setup and pre-use checks of laboratory equipment

Performance Criteria

- 1.1 Laboratory equipment setup and pre-use checks are performed according to workplace procedures.
- 1.2 Safety checks are performed according to instrumental and workplace procedures.
- 1.3 Faulty or unsafe components or equipment are identified and reported to appropriate personnel according to workplace procedures.
- 1.4 Relevant documentation is completed according to workplace procedures.

Element 2: Perform calibration checks

Performance Criteria

- 2.1 Workplace hazards and associated risks are identified, minimised or eliminated according to workplace procedures and legislative requirements.
- 2.2 Start up equipment procedures are implemented according to workplace procedures.
- 2.3 Specified manufacturer standards are used for calibration checks.
- 2.4 Equipment is checked as per calibration procedures and schedules in line with workplace procedures.
- 2.5 Calibration data are recorded and compared with data specifications and/or previous records. Non-compliant equipment is identified and reported according to workplace procedures.

Element 3: Assist with equipment maintenance

Performance Criteria

- 3.1 Workplace hazards and associated risks are identified, minimised or eliminated according to workplace procedures and legislative requirements.
- 3.2 Basic maintenance is performed according to workplace procedures.
- 3.3 Equipment is cleaned and stored according to manufacturer's specification and workplace procedures.

- 3.4 Identified damaged and/or worn equipment is replaced, repaired, or disposed of according to workplace procedures.
- 3.5 Relevant documentation is completed according to workplace procedures.

Registration Data

Subfield:	Metallurgy
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Body responsible for review:	Namibia Training Authority