

Unit ID: 1475

Domain METALLURGICAL PROCESSING - CORE
Title: Apply productivity principles in routine processing operations

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: Plan and prepare for routine processing operations; measure, calculate and compile production activity records; and comply with productivity improvement measures.

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. 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. '*Productivity principles*' include but are not limited to productivity targets, production outputs production rates and production cycle.

5. Safe working practices include day-to-day observation of safety policies and procedures and compliance with emergency procedures.

6. Specifications refer to any, or all of the following: manufacturer's specifications and recommendations, and workplace specific requirements.

7. Performance of all elements in this unit standard must comply with relevant regulatory, legislative, workplace requirements and/or manufacturers' specifications.

8. 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: Plan and prepare for routine processing operations

Performance Criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, explained, clarified and applied to the allocated task.
- 1.2 Safety and security requirements, including personal protective clothing and equipment are obtained from the site safety plan, workplace policies and procedures, explained, and applied to the allocated task.
- 1.3 Equipment, tools, fuel, lubricants, attachments and accessories selected to carry out tasks are checked for consistency with the requirements of the job, their usability and any faults rectified or reported prior to commencement of work.
- 1.4 Environmental protection requirements are identified from the project environmental management plan and applied to the allocated task.
- 1.5 Work area is inspected and prepared according to workplace procedures.

Element 2: Measure, calculate and compile production activity records

Performance Criteria

- 2.1 Daily actual productions are measured and compared to planned production target.
- 2.2 Production activity records are compiled according to workplace procedures.
- 2.3 Significant variances are reported in accordance with documented instruction and workplace procedures.

Element 3: Comply with productivity improvement measures

Performance Criteria

- 3.1 Information from production activity report is used for productivity improvement decisions in consultation with line supervisor.

- 3.2 Productivity improvement measures are complied with and monitored in conjunction with line supervisors.

Registration Data

Subfield:	Metallurgy
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