

Domain**MINERAL PROCESSING****Title:****Control quality of aggregate produced by
mobile and static plant****Level: 4****Credits: 12****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 source material for production; demonstrate knowledge of testing procedures for specified products and methods of stockpiling product; control production to meet client requirements; and demonstrate knowledge of product suitability for customer requirements.

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 mineral 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: Demonstrate knowledge of source material for production

Range

Terminology may include but is not limited to crushing resistance; polished stone value; plasticity index; sand equivalent; weathering resistance.

Performance Criteria

- 1.1 Terminology is defined in the context of surface extraction.
- 1.2 Specific products are identified in the context of surface extraction.
- 1.3 The methods of determining size, shape and grading of chips and aggregate are described in relationship to the models currently in use.

Element 2: Demonstrate knowledge of testing procedures for specified products and methods of stockpiling product

Performance Criteria

- 2.1 The testing procedures for company products are described in relation to the workplace procedures and levels of quality analysis required.
- 2.2 The methods of stockpiling products are described in relating to their effectiveness for given types of products and their safe working.
- 2.3 The avoidance of segregation and contamination of product is described in relation to vehicle tyres, vehicle buckets, wind, vegetation and workplace operating instructions.

Element 3: Control production to meet client requirements

Range

Client requirements may include but are not limited to company operational tests; reading test sheets; adjustments of crushers; screens and meshes; and blending at stockpile.

Performance Criteria

- 3.1 Test analysis of the product is checked against company and client requirements.
- 3.2 Crusher settings are adjusted and mix altered, where required, to correct anomalies found in test analysis in accordance with workplace procedures.

- 3.3 Screen cloths are changed, where required, to correct anomalies found in test analysis in accordance with workplace procedures.
- 3.4 Products are mixed and blended in accordance with client requirements.

Element 4: Demonstrate knowledge of product suitability for customer requirements

Range

Suitability may include but is not limited to builders mix; drain course; and domestic base courses.

Performance Criteria

- 4.1 The range of company products is described in terms of their suitability for targeted customers.
- 4.2 The suitability of product is described in terms of its suitability for given purposes.

Registration Data

Subfield:	Metallurgy
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Body responsible for review:	Namibia Training Authority