
GOVERNMENT NOTICES

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

No. 781

5 August 2005

Established in terms of Act 58 of 1995

SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)

In accordance with regulation 24(c) of the Standard Generating Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

Mining and Minerals

publishes the following unit standards for public comment.

This notice contains the titles, fields, sub-fields, **NQF** levels, credits, and purpose of the unit standards. The unit standards can be accessed via the **SAQA** web-site at www.saga.org.za. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, Hatfield Forum West, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the qualification and unit standards should reach **SAQA** at the address below and no **later than 5 September 2005**. All correspondence should be marked Standards Setting – **SGB** Mining and Minerals and addressed to

The Director: Standards Setting and Development
SAQA
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ACTING DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

1

SAQA US ID		UNIT STANDARD TITLE	
119963		Identify and maintain categories of merchandise in the jewellery industry	
SGB NAME		NSB 06	PROVIDER NAME
SGB Mining and Minerals		Manufacturing, Engineering and Technology	
UNIT STANDARD TYPE		FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Manufacturing, Engineering and Technology	Fabrication and Extraction
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	3	Level 1	Regular

SPECIFIC OUTCOME 2

Identify and maintain various categories of goods merchandise.

SPECIFIC OUTCOME 3

Identify various jewellery findings.



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UNIT STANDARD:

2

SAQA US ID		UNIT STANDARD TITLE	
119964		Understand and apply a problem-solving technique	
SGB NAME		NSB 06	PROVIDER NAME
SGB Mining and Minerals		Manufacturing, Engineering and Technology	
UNIT STANDARD TYPE		FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Manufacturing, Engineering and Technology	Engineering and Related Design
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	2	Level 2	Regular

Describe the components of a typical systematic problem solving technique.

SPECIFIC OUTCOME 2

Identify and elaborate on a problem related to the working environment.

SPECIFIC OUTCOME 3

Identify possible causes.

SPECIFIC OUTCOME 4

Rectify the problem.



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SAQA US ID		UNIT STANDARD TITLE	
119965		Demonstrate an understanding of the value of jewellery	
SGB NAME		NSB 06	PROVIDER NAME
SGB Mining and Minerals		Manufacturing, Engineering and Technology	
UNIT STANDARD TYPE		FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Manufacturing, Engineering and Technology	Fabrication and Extraction
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	2	Level 1	Regular

SPECIFIC OUTCOME 2

Describe the materials used in contemporary commercial jewellery.

SPECIFIC OUTCOME 3

Demonstrate an understanding of the price of jewellery.



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UNIT STANDARD:

4

SAQA US ID	UNIT STANDARD TITLE		
119966	Operate Tractor and ancillary equipment		
SGB NAME	NSB 06	PROVIDER NAME	
SGB Mining and Minerals	Manufacturing, Engineering and Technology		
UNIT STANDARD TYPE	FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Manufacturing, Engineering and Technology	Fabrication and Extraction	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	1	Level 1	Regular

SPECIFIC OUTCOME 1

Prepare to operate tractor and ancillary equipment.

SPECIFIC OUTCOME 2

Operate Tractor and ancillary equipment.

SPECIFIC OUTCOME 3

Monitor tractor and ancillary equipment.



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UNIT STANDARD:

5

SAQA US ID		UNIT STANDARD TITLE	
119967		Operate Tractor Loader Backhoe	
SGB NAME		NSB 06	PROVIDER NAME
SGB Mining and Minerals		Manufacturing, Engineering and Technology	
UNIT STANDARD TYPE		FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Manufacturing, Engineering and Technology	Fabrication and Extraction
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	6	Level 1	Regular

SPECIFIC OUTCOME 1

Prepare to operate a Tractor Loader Backhoe.

SPECIFIC OUTCOME 2

Operate Tractor Loader Backhoe.

SPECIFIC OUTCOME 3

Monitor Tractor Loader Backhoe operations.



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UNIT STANDARD:

6

Demonstrate understanding of the role and the processes of a laboratory involved in a mining operation

SAQA US ID	UNIT STANDARD TITLE		
119968	Demonstrate understanding of the role and the processes of a laboratory involved in a mining operation		
SGB NAME		NSB 06	PROVIDER NAME
SGB Mining and Minerals		Manufacturing, Engineering and Technology	
UNIT STANDARD TYPE		FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Manufacturing, Engineering and Technology	Fabrication and Extraction
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	3	Level 2	Regular

SPECIFIC OUTCOME 1

Demonstrate knowledge relating to the purpose of the laboratory.

SPECIFIC OUTCOME 2

Demonstrate knowledge relating to the laboratory processes.



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UNIT STANDARD:

7

Understand the kinds of minerals and related products mined and beneficiated in South Africa

SAQA US ID	UNIT STANDARD TITLE		
119969	Understand the kinds of minerals and related products mined and beneficiated in South Africa		
SGB NAME		NSB 06	PROVIDER NAME
SGB Mining and Minerals		Manufacturing, Engineering and Technology	
UNIT STANDARD TYPE		FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Manufacturing, Engineering and Technology	Fabrication and Extraction
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	2	Level 1	Regular

SPECIFIC OUTCOME 1

Demonstrate basic knowledge and understanding of the typical minerals found in South Africa and their beneficiation.

SPECIFIC OUTCOME 2

Demonstrate basic knowledge and understanding of the importance of the minerals and beneficiation industries to stakeholders in South Africa.

SPECIFIC OUTCOME 3

Demonstrate basic knowledge and understanding of the international importance of the South African minerals industry.



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UNIT STANDARD:

8

SAQA US ID		UNIT STANDARD TITLE	
119970		Identify tools required for manufacturing hand made jewellery	
SGB NAME		NSB 06	PROVIDER NAME
SGB Mining and Minerals		Manufacturing, Engineering and Technology	
UNIT STANDARD TYPE		FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Manufacturing, Engineering and Technology	Fabrication and Extraction
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	1	Level 1	Regular

SPECIFIC OUTCOME 1

Identify and describe hand tools used in the manufacturing process.

SPECIFIC OUTCOME 2

Identify and describe power tools used in the manufacturing process.

SPECIFIC OUTCOME 3

Identify and describe melting tools used in the manufacturing process.



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UNIT STANDARD:

9

Demonstrate an understanding of the workshop set-up for handmade jewellery

SAQA US ID	UNIT STANDARD TITLE		
119971	Demonstrate an understanding of the workshop set-up for handmade jewellery		
SGB NAME	NSB 06	PROVIDER NAME	
SGB Mining and Minerals	Manufacturing, Engineering and Technology		
UNIT STANDARD TYPE	FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Manufacturing, Engineering and Technology	Fabrication and Extraction	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	2	Level 1	Regular

SPECIFIC OUTCOME 1

Identify and describe a workbench and forming area.

SPECIFIC OUTCOME 2

Identify and describe the melting and pickling area.

SPECIFIC OUTCOME 3

Polishing and cleaning area



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UNIT STANDARD:

10

SAQA US ID	UNIT STANDARD TITLE		
119972	Identify engineering tools material and equipment and explain the purpose and function of each		
SGB NAME		NSB 06	PROVIDER NAME
SGB Mining and Minerals		Manufacturing, Engineering and Technology	
UNIT STANDARD TYPE		FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Manufacturing, Engineering and Technology	Fabrication and Extraction
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	2	Level 1	Regular

SPECIFIC OUTCOME 1

Identify tools used in an engineering environment.

SPECIFIC OUTCOME 2

Identify equipment used in an engineering environment.

SPECIFIC OUTCOME 3

Identify materials used in an engineering environment.



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UNIT STANDARD:

11

SAQA US ID		UNIT STANDARD TITLE	
119976		Read and interpret an elementary engineering drawing	
SGB NAME		NSB 06	PROVIDER NAME
SGB Mining and Minerals		Manufacturing, Engineering and Technology	
UNIT STANDARD TYPE		FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Manufacturing, Engineering and Technology	Fabrication and Extraction
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	3	Level 1	Regular