

No. 1278

5 December 2008

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

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

**Engineering**

registered by Organising Field 06, Manufacturing, Engineering and Technology, publishes the following Unit Standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the Unit Standard upon which the qualification is based. The full Unit Standards can be accessed via the SAQA web-site at [www.saqqa.org.za](http://www.saqqa.org.za). Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the Unit Standards should reach SAQA at the address ***below and no later than 5 January 2009*** All correspondence should be marked **Standards Setting – Engineering** addressed to

The Director: Standards Setting and Development  
SAQA  
*Attention: Mr. E. Brown*  
Postnet Suite 248  
Private Bag X06  
Waterkloof  
0145  
or faxed to 012 – 431-5144  
e-mail: [ebrown@saqa.org.za](mailto:ebrown@saqa.org.za)

  
D. MPHUTHING

ACTING DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Manage and Direct Non-Destructive Magnetic Particle Testing***

SAQA US ID		UNIT STANDARD TITLE	
260297		Manage and Direct Non-Destructive Magnetic Particle Testing	
ORIGINATOR		PROVIDER	
SGB Engineering			
FIELD		SUBFIELD	
6 - Manufacturing, Engineering and Technology		Engineering and Related Design	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 6	6

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Translate MT Codes, Specifications and Procedures into practical work instructions adapted to the actual working conditions.

**SPECIFIC OUTCOME 2**

Verify equipment and process for Magnetic Particle testing.

**SPECIFIC OUTCOME 3**

Perform and supervise testing.

**SPECIFIC OUTCOME 4**

Interpret and evaluate indications.

**SPECIFIC OUTCOME 5**

Organize and report results.

**SPECIFIC OUTCOME 6**

Establish techniques and procedures for testing.

**SPECIFIC OUTCOME 7**

Assume full responsibility for NDT Facility and Staff.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Manage and Direct Non-Destructive Electromagnetic Testing***

SAQA US ID	UNIT STANDARD TITLE		
260298	Manage and Direct Non-Destructive Electromagnetic Testing		
ORIGINATOR	PROVIDER		
SGB Engineering			
FIELD	SUBFIELD		
6 - Manufacturing, Engineering and Technology	Engineering and Related Design		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 6	12

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Translate Codes, Specifications and Procedures into practical work instructions adapted to the actual working conditions.

**SPECIFIC OUTCOME 2**

Verify equipment for electromagnetic testing.

**SPECIFIC OUTCOME 3**

Perform and supervise testing.

**SPECIFIC OUTCOME 4**

Interpret and evaluate indications.

**SPECIFIC OUTCOME 5**

Organize and report results.

**SPECIFIC OUTCOME 6**

Establish techniques and procedures for testing.

**SPECIFIC OUTCOME 7**

Assume full responsibility for NDT Facility and Staff.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None .



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

## UNIT STANDARD:

*Manage and direct non-destructive radiographic testing*

SAQA US ID	UNIT STANDARD TITLE		
260299	Manage and direct non-destructive radiographic testing		
ORIGINATOR	PROVIDER		
SGB Engineering			
FIELD	SUBFIELD		
6 - Manufacturing, Engineering and Technology	Engineering and Related Design		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 6	12

*This unit standard does not replace any other unit standard and is not replaced by another unit standard.*

**SPECIFIC OUTCOME 1**

Translate RT Codes, Specifications and Procedures into practical work instructions adapted to the actual working conditions.

**SPECIFIC OUTCOME 2**

Verify equipment for radiographic testing.

**SPECIFIC OUTCOME 3**

Perform and supervise testing.

**SPECIFIC OUTCOME 4**

Interpret and evaluate indications on radiographs.

**SPECIFIC OUTCOME 5**

Organize and report results.

**SPECIFIC OUTCOME 6**

Establish techniques and procedures for testing.

**SPECIFIC OUTCOME 7**

Assume full responsibility for NDT Facility and Staff.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Manage and Direct Non-Destructive Liquid Penetrant Testing***

<b>SAQA US ID</b>		<b>UNIT STANDARD TITLE</b>	
260300		Manage and Direct Non-Destructive Liquid Penetrant Testing	
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Engineering			
<b>FIELD</b>		<b>SUBFIELD</b>	
6 - Manufacturing, Engineering and Technology		Engineering and Related Design	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	6

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Translate PT Codes, Specifications and Procedures into practical work instructions adapted to the actual working conditions.

**SPECIFIC OUTCOME 2**

Verify equipment and process for liquid penetrant testing.

**SPECIFIC OUTCOME 3**

Perform and supervise testing.

**SPECIFIC OUTCOME 4**

Interpret and evaluate indications.

**SPECIFIC OUTCOME 5**

Organize and report results.

**SPECIFIC OUTCOME 6**

Establish techniques and procedures for testing.

**SPECIFIC OUTCOME 7**

Assume full responsibility for NDT Facility and Staff.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Manage and direct non-destructive ultrasonic testing***

<b>SAQA US ID</b>		<b>UNIT STANDARD TITLE</b>	
260317		Manage and direct non-destructive ultrasonic testing	
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Engineering			
<b>FIELD</b>		<b>SUBFIELD</b>	
6 - Manufacturing, Engineering and Technology		Engineering and Related Design	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	12

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Translate UT Codes, Specifications and Procedures into practical work instructions adapted to the actual working conditions.

**SPECIFIC OUTCOME 2**

Verify equipment for ultrasonic testing.

**SPECIFIC OUTCOME 3**

Perform and supervise testing.

**SPECIFIC OUTCOME 4**

Interpret and evaluate indications.

**SPECIFIC OUTCOME 5**

Organize and report results.

**SPECIFIC OUTCOME 6**

Establish techniques and procedures for testing.

**SPECIFIC OUTCOME 7**

Assume full responsibility for NDT Facility and Staff.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None