

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

In accordance with Regulation 24(c) of the National Standards Bodies 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 Standards. The full Unit Standards can be accessed via the SAQA web-site at www.saqa.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 30 November 2009**. All correspondence should be marked **Standards Setting – SGB for Engineering** and addressed to

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ACTING DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Set targets and report on energy management

SAQA US ID	UNIT STANDARD TITLE		
337159	Set targets and report on energy management		
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	5

New NQF Level: NQF Level 06

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

SPECIFIC OUTCOME 1

Explain the purpose of energy monitoring, targeting and reporting.

SPECIFIC OUTCOME 2

Quantify the relationship between energy and production.

SPECIFIC OUTCOME 3

Set targets for energy management.

SPECIFIC OUTCOME 4

Report on energy management.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

None



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:***Implement energy management strategies within an organisational structure***

SAQA US ID	UNIT STANDARD TITLE		
337160	Implement energy management strategies within an organisational structure		
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	5

New NQF Level: NQF Level 06

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

SPECIFIC OUTCOME 1

Apply energy management in the South African context.

SPECIFIC OUTCOME 2

Develop a strategic approach to energy management.

SPECIFIC OUTCOME 3

Assess the organisational capacity for energy management.

SPECIFIC OUTCOME 4

Develop an action plan for energy management.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

None



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:*Interpret a business case and write an audit report*

SAQA US ID	UNIT STANDARD TITLE		
337161	Interpret a business case and write an audit report		
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	15

New NQF Level: NQF Level 06

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

SPECIFIC OUTCOME 1

Analyse a business case for an audit.

SPECIFIC OUTCOME 2

Compare an audit report for implementation.

SPECIFIC OUTCOME 3

Support good quality control principles.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

None



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:*Implement energy management solutions*

SAQA US ID	UNIT STANDARD TITLE		
337162	Implement energy management solutions		
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	5

New NQF Level: NQF Level 06

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

SPECIFIC OUTCOME 1

Evaluate the cost of energy.

SPECIFIC OUTCOME 2

Compare current energy use with historical and industry data.

SPECIFIC OUTCOME 3

Create a description of energy demand schedule.

SPECIFIC OUTCOME 4

Analyse energy use.

SPECIFIC OUTCOME 5

Optimise the energy supply.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

None



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Verify savings achieved through an energy audit and implementation

SAQA US ID	UNIT STANDARD TITLE		
337163	Verify savings achieved through an energy audit and implementation		
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	15

New NQF Level: NQF Level 06

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

SPECIFIC OUTCOME 1

Interpret the measurement and verification process.

SPECIFIC OUTCOME 2

Develop a statistical basis for the measurement and verification process.

SPECIFIC OUTCOME 3

Apply the framework for measurement and verification.

SPECIFIC OUTCOME 4

Conduct measurement and verification.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

None