

No. 13

11 January 2008

**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.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 8 February 2008**. All correspondence should be marked **Standards Setting – Engineering** and addressed to

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## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Install water sprinkler systems***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
254314	Install water sprinkler systems		
<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 4	6

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

**SPECIFIC OUTCOME 1**

Demonstrate knowledge of water sprinkler systems.

**SPECIFIC OUTCOME 2**

Prepare to install water sprinkler components.

**SPECIFIC OUTCOME 3**

Install water sprinkler components.

**SPECIFIC OUTCOME 4**

Test water sprinkler system.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Install passive fire protection systems***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
254315	Install passive fire protection systems		
<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 4	6

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**SPECIFIC OUTCOME 1**

Demonstrate knowledge of passive fire protection systems.

**SPECIFIC OUTCOME 2**

Prepare to install passive fire protection components.

**SPECIFIC OUTCOME 3**

Install passive fire protection components.

**SPECIFIC OUTCOME 4**

Test passive fire protection systems.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



**SOUTH AFRICAN QUALIFICATIONS AUTHORITY**

**UNIT STANDARD:**

***Install electrical smoke control systems***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
254316	Install electrical smoke control systems		
<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 4	6

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

**SPECIFIC OUTCOME 1**

Demonstrate knowledge of electrical smoke control systems.

**SPECIFIC OUTCOME 2**

Prepare to install electrical smoke control components.

**SPECIFIC OUTCOME 3**

Install electrical smoke control components.

**SPECIFIC OUTCOME 4**

Test electrical smoke control systems.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Install fire alarm and detection systems***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
254317	Install fire alarm and detection systems		
<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 4	6

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

**SPECIFIC OUTCOME 1**

Demonstrate knowledge of fire alarm and detection components.

**SPECIFIC OUTCOME 2**

Prepare to install fire alarm and detection components.

**SPECIFIC OUTCOME 3**

Install fire alarm and detection components.

**SPECIFIC OUTCOME 4**

Test fire alarm and detection system.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Install mechanical fixed gaseous fire extinguishing systems***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
254319	Install mechanical fixed gaseous fire extinguishing systems		
<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 4	6

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

**SPECIFIC OUTCOME 1**

Demonstrate knowledge of mechanical fixed gaseous fire extinguishing components.

**SPECIFIC OUTCOME 2**

Prepare to install mechanical fixed gaseous fire extinguishing components.

**SPECIFIC OUTCOME 3**

Install mechanical fixed gaseous fire extinguishing components.

**SPECIFIC OUTCOME 4**

Test mechanical fixed gaseous fire extinguishing system.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Install foam fire extinguishing systems***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
254320	Install foam fire extinguishing systems		
<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 4	6

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**SPECIFIC OUTCOME 1**

Demonstrate knowledge of foam fire extinguishing components.

**SPECIFIC OUTCOME 2**

Prepare to install foam fire extinguishing components.

**SPECIFIC OUTCOME 3**

Install foam fire extinguishing components.

**SPECIFIC OUTCOME 4**

Test foam fire extinguishing system.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



**SOUTH AFRICAN QUALIFICATIONS AUTHORITY**

**UNIT STANDARD:**

***Install mechanical smoke control systems***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
254321	Install mechanical smoke control systems		
<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 4	6

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**SPECIFIC OUTCOME 1**

Demonstrate knowledge of mechanical smoke control systems.

**SPECIFIC OUTCOME 2**

Prepare to install mechanical smoke control components.

**SPECIFIC OUTCOME 3**

Install mechanical smoke control components.

**SPECIFIC OUTCOME 4**

Test mechanical smoke control systems.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Install aerosol fire extinguishing systems***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
254322	Install aerosol fire extinguishing systems		
<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 4	6

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**SPECIFIC OUTCOME 1**

Demonstrate knowledge of aerosol fire extinguishing components.

**SPECIFIC OUTCOME 2**

Prepare to install aerosol fire extinguishing components.

**SPECIFIC OUTCOME 3**

Install aerosol fire extinguishing components.

**SPECIFIC OUTCOME 4**

Test aerosol fire extinguishing system.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Install powder fire extinguishing systems***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
254323	Install powder fire extinguishing systems		
<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 4	6

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**SPECIFIC OUTCOME 1**

Demonstrate knowledge of powder fire extinguishing components.

**SPECIFIC OUTCOME 2**

Prepare to install powder fire extinguishing components.

**SPECIFIC OUTCOME 3**

Install powder fire extinguishing components.

**SPECIFIC OUTCOME 4**

Test powder fire extinguishing system.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Install electrical fixed gaseous fire extinguishing systems***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
254324	Install electrical fixed gaseous fire extinguishing systems		
<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 4	6

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

**SPECIFIC OUTCOME 1**

Demonstrate knowledge of electrical fixed gaseous fire extinguishing components.

**SPECIFIC OUTCOME 2**

Prepare to install electrical fixed gaseous fire extinguishing components.

**SPECIFIC OUTCOME 3**

Install electrical fixed gaseous fire extinguishing components.

**SPECIFIC OUTCOME 4**

Test electrical fixed gaseous fire extinguishing system.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None