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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* 11 April 2008. All correspondence should be marked Standards Setting – Engineering and addressed to

The Director: Standards Setting and Development

SAQA

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DR. S. BHIKHA

DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



UNIT STANDARD:

Design fire alarm and detection systems

SAQA US ID	UNIT STANDARD TITLE			
255717	Design fire alarm and detection	Design fire alarm and detection systems		
ORIGINATOR		PROVIDER		
SGB Engineering				
FIELD	SUBFIELD			
6 - Manufacturing, E	ngineering and Technology	Engineering and R	elated Design	
ABET BAND	UNIT STANDARD TYPE	E 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

Demonstrate knowledge of commissioning fire alarm and detection systems.

SPECIFIC OUTCOME 2

Activate and test fire alarm and detection systems.

SPECIFIC OUTCOME 3

Inspect fire alarm and detection systems.

SPECIFIC OUTCOME 4

Certify fire alarm and detection systems.



UNIT STANDARD:

Commission passive fire protection systems

SAQA US ID	UNIT STANDARD TITLE			
255735	Commission passive fire protection systems			
ORIGINATOR		PROVIDER		
SGB Engineering				
FIELD	SUBFIELD			
6 - Manufacturing, E	lanufacturing, Engineering and Technology Engineeri		ineering 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

Demonstrate knowledge of commissioning passive fire protection systems.

SPECIFIC OUTCOME 2

Activate and test passive fire protection systems.

SPECIFIC OUTCOME 3

Inspect passive fire protection systems.

SPECIFIC OUTCOME 4

Certify passive fire protection systems.



UNIT STANDARD:

Commission aerosol fire extinguishing systems

SAQA US ID	UNIT STANDARD TITLE			
255715	Commission aerosol fire extir	Commission aerosol fire extinguishing systems		
ORIGINATOR		PROVIDER		
SGB Engineering				
FIELD	SUBFIELD			
6 - Manufacturing, E	ngineering and Technology	Engineering and R	elated 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

Demonstrate knowledge of commissioning aerosol fire extinguishing systems.

SPECIFIC OUTCOME 2

Activate and test aerosol fire extinguishing systems.

SPECIFIC OUTCOME 3

Inspect aerosol fire extinguishing systems.

SPECIFIC OUTCOME 4

Certify aerosol fire extinguishing systems.



UNIT STANDARD:

Commission water sprinkler systems

SAQA US ID	UNIT STANDARD TITLE			
255699	Commission water sprinkler s	Commission water sprinkler systems		
ORIGINATOR		PROVIDER		
SGB Engineering				
FIELD	SUBFIELD			
6 - Manufacturing, I	ngineering and Technology	Engineering and R	Engineering and Related Design	
ABET BAND	UNIT STANDARD TYPE			
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

Demonstrate knowledge of commissioning water sprinkler systems.

SPECIFIC OUTCOME 2

Activate and test water sprinkler systems.

SPECIFIC OUTCOME 3

Inspect water sprinkler systems.

SPECIFIC OUTCOME 4

Certify water sprinkler systems.



UNIT STANDARD:

Commission powder fire extinguishing systems

SAQA US ID	UNIT STANDARD TITLE			
255714	Commission powder fire extir	Commission powder fire extinguishing systems		
ORIGINATOR		PROVIDER		
SGB Engineering				
FIELD	SUBFIELD			
6 - Manufacturing, E	Engineering and Technology	Engineering and R	elated 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

Demonstrate knowledge of commissioning powder fire extinguishing systems.

SPECIFIC OUTCOME 2

Activate and test powder fire extinguishing systems.

SPECIFIC OUTCOME 3

Inspect powder fire extinguishing systems.

SPECIFIC OUTCOME 4

Certify powder fire extinguishing systems.



UNIT STANDARD:

Commission foam fire extinguishing systems

SAQA US ID	UNIT STANDARD TITLE		
255702	Commission foam fire extinguishing systems		
ORIGINATOR	PROVIDER		
SGB Engineering			
FIELD	SUBFIELD		
6 - Manufacturing, E	6 - Manufacturing, Engineering and Technology		elated 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

Demonstrate knowledge of commissioning foam fire extinguishing systems.

SPECIFIC OUTCOME 2

Activate and test foam fire extinguishing systems.

SPECIFIC OUTCOME 3

Inspect foam fire extinguishing systems.

SPECIFIC OUTCOME 4

Certify foam fire extinguishing systems.



UNIT STANDARD:

Commission smoke control systems

SAQA US ID	UNIT STANDARD TITLE			
255705	Commission smoke control s	Commission smoke control systems		
ORIGINATOR		PROVIDER		
SGB Engineering				
FIELD	SUBFIELD			
6 - Manufacturing, I	Ingineering and Technology	Engineering and R	elated 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

Demonstrate knowledge of commissioning smoke control systems.

SPECIFIC OUTCOME 2

Activate and test smoke control systems.

SPECIFIC OUTCOME 3

Inspect smoke control systems.

SPECIFIC OUTCOME 4

Certify smoke control systems.



UNIT STANDARD:

Commission mechanical fixed gaseous fire extinguishing systems

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE		
255700	Commission mechanical fixed	Commission mechanical fixed gaseous fire extinguishing systems		
ORIGINATOR		PROVIDER		
SGB Engineering				
FIELD	SUBFIELD			
6 - Manufacturing, Er	ngineering and Technology	Engineering and Re	elated 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

Demonstrate knowledge of commissioning mechanical fixed gaseous fire extinguishing systems.

SPECIFIC OUTCOME 2

Activate and test mechanical fixed gaseous fire extinguishing systems.

SPECIFIC OUTCOME 3

Inspect mechanical fixed gaseous fire extinguishing systems.

SPECIFIC OUTCOME 4

Certify mechanical fixed gaseous fire extinguishing systems.



UNIT STANDARD:

Commission electrical fixed gaseous fire extinguishing systems

SAQA US ID	UNIT STANDARD TITLE			
255703	Commission electrical fixed g	Commission electrical fixed gaseous fire extinguishing systems		
ORIGINATOR	PROVIDER			
SGB Engineering				
FIELD	SUBFIELD			
6 - Manufacturing, E	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

Demonstrate knowledge of commissioning electrical fixed gaseous fire extinguishing systems.

SPECIFIC OUTCOME 2

Activate and test electrical fixed gaseous fire extinguishing systems.

SPECIFIC OUTCOME 3

Inspect electrical fixed gaseous fire extinguishing systems.

SPECIFIC OUTCOME 4

Certify electrical fixed gaseous fire extinguishing systems.



UNIT STANDARD:

Design fire alarm and detection systems

SAQA US ID	UNIT STANDARD TITLE			
255716	Design fire alarm and detection systems			
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 7	16	

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 system design.

SPECIFIC OUTCOME 2

Research design requirements.

SPECIFIC OUTCOME 3

Stipulate design requirements.

SPECIFIC OUTCOME 4

Communicate design criteria.



UNIT STANDARD:

Design passive fire protection systems

SAQA US ID	UNIT STANDARD TITLE		
255734	Design passive fire protection systems		
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 7	16

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

SPECIFIC OUTCOME 1

Demonstrate knowledge of passive fire protection system design.

SPECIFIC OUTCOME 2

Research design requirements.

SPECIFIC OUTCOME 3

Stipulate design requirements.

SPECIFIC OUTCOME 4

Communicate design criteria.



UNIT STANDARD:

Design aerosol fire extinguishing systems

SAQA US ID	UNIT STANDARD TITLE			
255704	Design aerosol fire extinguish	Design aerosol fire extinguishing systems		
ORIGINATOR	PROVIDER			
SGB Engineering				
FIELD	SUBFIELD			
6 - Manufacturing, En	gineering and Technology	Engineering and Related Design		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL CREDITS		
Undefined	Regular	Level 7	2	

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

SPECIFIC OUTCOME 1

Demonstrate knowledge of aerosol fire extinguishing system design.

SPECIFIC OUTCOME 2

Research design requirements.

SPECIFIC OUTCOME 3

Stipulate design requirements.

SPECIFIC OUTCOME 4

Communicate design criteria.



UNIT STANDARD:

Design water sprinkler systems

SAQA US ID	UNIT STANDARD TITLE		
255697	Design water sprinkler systems		
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 7	16

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 system design.

SPECIFIC OUTCOME 2

Research design requirements.

SPECIFIC OUTCOME 3

Stipulate design requirements.

SPECIFIC OUTCOME 4

Communicate design criteria.



UNIT STANDARD:

Design powder fire extinguishing systems

SAQA US ID	UNIT STANDARD TITLE			
255696	Design powder fire extinguishing systems			
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 7	10	

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

SPECIFIC OUTCOME 1

Demonstrate knowledge of powder fire extinguishing system design.

SPECIFIC OUTCOME 2

Research design requirements.

SPECIFIC OUTCOME 3

Stipulate design requirements.

SPECIFIC OUTCOME 4

Communicate design criteria.



UNIT STANDARD:

Design foam fire extinguishing systems

SAQA US ID	UNIT STANDARD TITLE			
255695	Design foam fire extinguishing systems			
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 7	16	

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

SPECIFIC OUTCOME 1

Demonstrate knowledge of foam fire extinguishing system design.

SPECIFIC OUTCOME 2

Research design requirements.

SPECIFIC OUTCOME 3

Stipulate design requirements.

SPECIFIC OUTCOME 4

Communicate design criteria.



UNIT STANDARD:

Design smoke control systems

SAQA US ID	UNIT STANDARD TITLE			
255698	Design smoke control systems			
ORIGINATOR		PROVIDER	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 7	16	

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

SPECIFIC OUTCOME 1

Demonstrate knowledge of smoke control system design.

SPECIFIC OUTCOME 2

Research design requirements.

SPECIFIC OUTCOME 3

Stipulate design requirements.

SPECIFIC OUTCOME 4

Communicate design criteria.



UNIT STANDARD:

Design mechanical fixed gaseous fire extinguishing systems

SAQA US ID	UNIT STANDARD TITLE			
255694	Design mechanical fixed gaseous fire extinguishing systems			
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 7	10	

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 system design.

SPECIFIC OUTCOME 2

Research design requirements.

SPECIFIC OUTCOME 3

Stipulate design requirements.

SPECIFIC OUTCOME 4

Communicate design criteria.



UNIT STANDARD:

Design electrical fixed gaseous fire extinguishing systems

SAQA US ID	UNIT STANDARD TITLE			
255701	Design electrical fixed gaseous fire extinguishing systems			
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 7	10	

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 system design.

SPECIFIC OUTCOME 2

Research design requirements.

SPECIFIC OUTCOME 3

Stipulate design requirements.

SPECIFIC OUTCOME 4

Communicate design criteria.

QUALIFICATIONS UTILISING THIS UNIT STANDARD None

Source: National Learners' Records Database

Unit Standard 255701

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