



Government Gazette

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AIDS HELPLINE: 0800-0123-22 Prevention is the cure

GOVERNMENT NOTICES

SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)

No. 591

14 May 2004

Established in terms of Act 58 of 1995

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

Civil Engineering and Construction

Registered by NSB 12, Physical Planning and Construction, 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 upon which qualifications are based. The full 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.

Comment on the unit standards should reach SAQA at the address *below and no later than 14 June 2004*. All correspondence should be marked **Standards Setting – SGB Civil Engineering and Construction** and addressed to

The Director: Standards Setting and Development
SAQA
Attention: Mr. D Mphuthing
Postnet Suite 248
Private Bag X06
Waterkloof
0145
or faxed to 012 – 482 0907
e-mail: dmphuthing@saqa.co.za

JOE SAMUELS

Director: Standards Setting and Development



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

1

Manage environment initiatives on a construction project

SAQA US ID	UNIT STANDARD TITLE		
114656	Manage environment initiatives on a construction project		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Civil Engineering Construction	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Physical Planning and Construction		Civil Engineering Construction	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
PPC-CEC-0-SGB CEC	Regular	Level 6	6

Specific Outcomes:

SPECIFIC OUTCOME 1

Demonstrate an understanding of environmental management practices.

SPECIFIC OUTCOME 2

Consider environmental management initiatives during pre-construction planning and decision making.

SPECIFIC OUTCOME 3

Manage environmental initiatives during construction activities.

SPECIFIC OUTCOME 4

Manage environmental initiatives during post- construction activities.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

1

Manage drainage construction activities

SAQA US ID	UNIT STANDARD TITLE		
113972	Manage drainage construction activities		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Civil Engineering Construction	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Physical Planning and Construction	Physical Planning, Design and Management		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
PPC-PPD-0-SGB CEC	Regular	Level 5	10

Specific Outcomes:**SPECIFIC OUTCOME 1**

Implement Occupational Health and Safety measures.

SPECIFIC OUTCOME 2

Plan the execution of drainage construction, upgrading, rehabilitation and maintenance activities.

SPECIFIC OUTCOME 3

Set out the works.

SPECIFIC OUTCOME 4

Execute the drainage construction, upgrading, rehabilitation and maintenance work.

SPECIFIC OUTCOME 5

Prepare as build drawings and materials report.

SPECIFIC OUTCOME 6

Implement environmental principles.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

2

Manage geo-technical construction activities

SAQA US ID	UNIT STANDARD TITLE		
113973	Manage geo-technical construction activities		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Civil Engineering Construction	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Physical Planning and Construction		Physical Planning, Design and Management	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
PPC-PPD-0-SGB CEC	Regular	Level 5	20

Specific Outcomes:

SPECIFIC OUTCOME 1

Implement Occupational Health and Safety measures.

SPECIFIC OUTCOME 2

Plan the execution of geo-technical construction activities.

SPECIFIC OUTCOME 3

Set out the works.

SPECIFIC OUTCOME 4

Execute the geo-technical construction work.

SPECIFIC OUTCOME 5

Prepare as build drawings and materials report.

SPECIFIC OUTCOME 6

Rehabilitate the environment.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

3

Manage railway construction activities

SAQA US ID	UNIT STANDARD TITLE		
113971	Manage railway construction activities		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Civil Engineering Construction	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Physical Planning and Construction		Physical Planning, Design and Management	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
PPC-PPD-0-SGB CEC	Regular	Level 5	20

Specific Outcomes:

SPECIFIC OUTCOME 1

Implement related safety measures.

SPECIFIC OUTCOME 2

Plan the execution of rail construction, upgrading, rehabilitation and maintenance activities.

SPECIFIC OUTCOME 3

Set out the works.

SPECIFIC OUTCOME 4

Execute the railway construction, upgrading, rehabilitation and maintenance work.

SPECIFIC OUTCOME 5

Prepare as build drawings and materials report.

SPECIFIC OUTCOME 6

Implement environmental principles.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

4

Manage structural construction activities

SAQA US ID	UNIT STANDARD TITLE		
113975	Manage structural construction activities		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Civil Engineering Construction	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Physical Planning and Construction		Civil Engineering Construction	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
PPC-CEC-0-SGB CEC	Regular	Level 5	20

Specific Outcomes:

SPECIFIC OUTCOME 1

Implement Occupational Health and Safety measures.

SPECIFIC OUTCOME 2

Plan the execution of structural construction activities.

SPECIFIC OUTCOME 3

Set out the works.

SPECIFIC OUTCOME 4

Execute the structural construction work.

SPECIFIC OUTCOME 5

Prepare as build drawings and materials report.

SPECIFIC OUTCOME 6

Rehabilitate the environment.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

5

Understand and apply drainage construction methods

SAQA US ID	UNIT STANDARD TITLE		
113978	Understand and apply drainage construction methods		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Civil Engineering Construction	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Physical Planning and Construction		Civil Engineering Construction	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
PPC-CEC-0-SGB CEC	Regular	Level 5	5

Specific Outcomes:

SPECIFIC OUTCOME 1

Demonstrate an understanding of the drainage construction process and associated technologies.

SPECIFIC OUTCOME 2

Understand and apply the various drainage construction elements.

SPECIFIC OUTCOME 3

Understand and apply concrete technology.

SPECIFIC OUTCOME 4

Understand and apply drainage upgrading, rehabilitation and drainage maintenance work.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

6

Understand and apply geo-technical construction methods

SAQA US ID	UNIT STANDARD TITLE		
113977	Understand and apply geo-technical construction methods		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Civil Engineering Construction	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Physical Planning and Construction	Physical Planning, Design and Management		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
PPC-PPD-0-SGB CEC	Regular	Level 5	10

Specific Outcomes:

SPECIFIC OUTCOME 1

Demonstrate an understanding of the geo-technical construction process and associated technologies.

SPECIFIC OUTCOME 2

Understand and apply the various geo-technical construction elements.

SPECIFIC OUTCOME 3

Understand and apply concrete and grouting technology.

SPECIFIC OUTCOME 4

Finalize geo-technical construction.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

7

Understand and apply railway construction methods

SAQA US ID	UNIT STANDARD TITLE		
113976	Understand and apply railway construction methods		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Civil Engineering Construction	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Physical Planning and Construction		Civil Engineering Construction	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
PPC-CEC-0-SGB CEC	Regular	Level 5	10

Specific Outcomes:**SPECIFIC OUTCOME 1**

Demonstrate an understanding of the railway construction process and associated technologies.

SPECIFIC OUTCOME 2

Understand and apply the various railway construction elements.

SPECIFIC OUTCOME 3

Understand and apply concrete technology.

SPECIFIC OUTCOME 4

Understand and apply railway upgrading rehabilitation and rail maintenance work.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

8

Understand and apply structural construction methods

SAQA US ID	UNIT STANDARD TITLE		
113974	Understand and apply structural construction methods		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Civil Engineering Construction	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Physical Planning and Construction	Physical Planning, Design and Management		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
PPC-PPD-0-SGB CEC	Regular	Level 5	10

Specific Outcomes:

SPECIFIC OUTCOME 1

Demonstrate an understanding of the structural construction process and associated technologies.

SPECIFIC OUTCOME 2

Understand and apply the various structural construction elements.

SPECIFIC OUTCOME 3

Understand and apply concrete technology.

SPECIFIC OUTCOME 4

Understand and apply concrete and steel rehabilitation and maintenance work.