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## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

### REGISTERED UNIT STANDARD:

**Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations**

SAQA US ID	UNIT STANDARD TITLE			
9010	Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations			
ORIGINATOR		ORIGINATING PROVIDER		
SGB Math Literacy, Math, Math Sciences L 2 -4				
QUALITY ASSURING BODY				
-				
FIELD			SUBFIELD	
Field 10 - Physical, Mathematical, Computer and Life Sciences			Mathematical Sciences	
ABET BAND	UNIT STANDARD TYPE	PRE-2009 NQF LEVEL	NQF LEVEL	CREDITS
Undefined	Regular-Fundamental	Level 3	NQF Level 03	2
REGISTRATION STATUS		REGISTRATION START DATE	REGISTRATION END DATE	SAQA DECISION NUMBER
Reregistered		2012-07-01	2015-06-30	SAQA 0695/12
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2016-06-30		2019-06-30		

*In all of the tables in this document, both the pre-2009 NQF Level and the NQF Level is shown. In the text (purpose statements, qualification rules, etc), any references to NQF Levels are to the pre-2009 levels unless specifically stated otherwise.*

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

### PURPOSE OF THE UNIT STANDARD

This unit standard is designed to provide credits towards the mathematical literacy requirements of the NQF at level 2. The essential purposes of the mathematical literacy requirements are that, as the learner progresses with confidence through the levels, the learner will grow in:

- . An insightful use of mathematics in the management of the needs of everyday living to become a self-managing person
- . An understanding of mathematical applications that provides insight into the learner`s present and future occupational experiences and so develop into a contributing worker
- . The ability to voice a critical sensitivity to the role of mathematics in a democratic society and so become a participating citizen.

People credited with this unit standard are able to:

Convert numbers between the decimal number system and binary number system

Work with numbers in different ways to express size/magnitude.

Demonstrate the effect of error in calculations.

### LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

The credit value is based on the assumption that people starting to learn towards this unit standard are competent in Mathematical Literacy and Communications at NQF level 2.

**UNIT STANDARD RANGE**

This unit standard covers:

Approximation in relation to the use of computing technologies, the distinction between exact and approximate answers in a variety of problem settings. More detailed range statements are provided for specific outcomes and assessment criteria as needed.

**Specific Outcomes and Assessment Criteria:****SPECIFIC OUTCOME 1**

Convert numbers between the decimal number system and the binary number system.

**OUTCOME RANGE**

This outcome includes the need to:

Perform addition and subtraction of positive whole numbers in binary up to 100002 (16 in decimal).

Demonstrate understanding of the mathematical relationships and principles involved in the computations.

**ASSESSMENT CRITERIA****ASSESSMENT CRITERION 1**

1. Conversion between binary and decimal numbers is done correctly.

**ASSESSMENT CRITERION 2**

2. Basic addition and subtraction calculations in the binary number system are done correctly.

**ASSESSMENT CRITERION RANGE**

Using positive whole numbers up to the 16 in decimal.

**ASSESSMENT CRITERION 3**

3. Practical applications of the decimal and binary system are explained correctly.

**SPECIFIC OUTCOME 2**

Work with numbers in different ways to express size and magnitude.

**OUTCOME RANGE**

This outcome includes the need to:

Use scientific notation for small and large numbers.

**ASSESSMENT CRITERIA****ASSESSMENT CRITERION 1**

1. The prefixes indicating magnitude in measurements are correctly related to the decimal system.

**ASSESSMENT CRITERION RANGE**

From Giga to Pica ( $10^{12}$  to  $10^{-12}$ )

**ASSESSMENT CRITERION 2**

2. Conversions between related units in different measurement systems are correctly applied in real-life contexts.

**ASSESSMENT CRITERION RANGE**

SI to Imperial; Degrees F to degrees C.

**SPECIFIC OUTCOME 3**

Demonstrate the effect of error in calculations.

**OUTCOME RANGE**

This outcome includes the need to:

Work with rational and irrational numbers.

Explore repeating decimals and convert them to common fraction form

Use scientific notation for small and large numbers.

## ASSESSMENT CRITERIA

### ASSESSMENT CRITERION 1

1. Symbols for irrational numbers such as  $\sqrt{7}$  and  $\sqrt{42}$  are left in formulae or steps to calculations except where approximations are required.

### ASSESSMENT CRITERION 2

2. Descriptions are provided of the effect of rounding prematurely in calculations.

### ASSESSMENT CRITERION 3

3. The desired degree of accuracy is determined in relation to the practical context.

### ASSESSMENT CRITERION 4

4. The final value of a calculation is expressed in terms of the required unit.

## UNIT STANDARD ACCREDITATION AND MODERATION OPTIONS

Providers of learning towards this unit standard will need to meet the accreditation requirements of the GENFETQA.

Moderation Option:

The moderation requirements of the GENFETQA must be met in order to award credit to learners for this unit standard.

## UNIT STANDARD ESSENTIAL EMBEDDED KNOWLEDGE

The following essential embedded knowledge will be assessed through assessment of the specific outcomes in terms of the stipulated assessment criteria. Candidates are unlikely to achieve all the specific outcomes, to the standards described in the assessment criteria, without knowledge of the listed embedded knowledge. This means that the possession or lack of the knowledge can be inferred directly from the quality of the candidate's performance against the standards.

Number systems and rational and irrational numbers

Estimation and approximation

Scientific notation

## Critical Cross-field Outcomes (CCFO):

### UNIT STANDARD CCFO COLLECTING

Collect, analyse, organise and critically evaluate information:  
Gather, organise, and interpret numerical information.

### UNIT STANDARD CCFO COMMUNICATING

Communicate effectively:

Use everyday language and mathematical language to describe relationships, processes and problem solving methods.

### UNIT STANDARD CCFO CONTRIBUTING

Use mathematics:

Use mathematics to describe and represent realistic situations and to solve problems relevant to the learner.

## QUALIFICATIONS UTILISING THIS UNIT STANDARD:

	ID	QUALIFICATION TITLE	PRE-2009 NQF LEVEL	NQF LEVEL	STATUS	END DATE	QUALITY ASSURING BODY
Fundamental	<a href="#">48794</a>	National Certificate in Quality Checking of Tyres and Tyre Components	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">48902</a>	National Certificate: Abattoir Supervision	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA

Fundamental	<a href="#">58011</a>	National Certificate: Acoustic Piano Back-framing	Level 3	NQF Level 03	Reregistered	2015-06-30	CATHSSETA
Fundamental	<a href="#">14892</a>	National Certificate: Agricultural Machinery Technician	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-09-13	AgriSETA
Fundamental	<a href="#">48963</a>	National Certificate: Air-Conditioning, Refrigeration and Ventilation	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-03-12	MERSETA until Last Date for Achievement
Fundamental	<a href="#">20720</a>	National Certificate: Air-Conditioning, Refrigeration and Ventilation	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2004-06-13	Was MERSETA until Last Date for Achievement
Fundamental	<a href="#">65489</a>	National Certificate: Air-Conditioning, Refrigeration and Ventilation	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">49048</a>	National Certificate: Animal Production	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">65490</a>	National Certificate: Arboriculture: Tree Preservation	Level 3	NQF Level 03	Reregistered	2015-06-30	FPMSETA
Fundamental	<a href="#">49772</a>	National Certificate: Archaeology	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2012-06-30	CATHSSETA
Fundamental	<a href="#">48864</a>	National Certificate: Auctioneering Support	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2011-02-16	SERVICES until Last Date for Achievement
Fundamental	<a href="#">58975</a>	National Certificate: Automated Packaging Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">64529</a>	National Certificate: Automotive Body Repair	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">21005</a>	National Certificate: Automotive Component Manufacturing and Assembly	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-11-01	Was MERSETA until Last Date for Achievement
Fundamental	<a href="#">71989</a>	National Certificate: Automotive Components: Manufacturing and Assembly	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">58497</a>	National Certificate: Automotive Repair and Maintenance	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2009-02-18	MERSETA until Last Date for Achievement
Fundamental	<a href="#">78524</a>	National Certificate: Automotive Repair and Maintenance	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">64409</a>	National Certificate: Automotive Spray Painting	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">22859</a>	National Certificate: Autotronics	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-11-07	MERSETA until Last Date for Achievement
Fundamental	<a href="#">78923</a>	National Certificate: Autotronics	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">71709</a>	National Certificate: Auxiliary Nursing	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against

							this Qual
Fundamental	<a href="#">65010</a>	National Certificate: Aviation Support Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">20184</a>	National Certificate: Banking	Level 3	NQF Level 03	Reregistered	2015-06-30	BANKSETA
Fundamental	<a href="#">65111</a>	National Certificate: Beauty Technology	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2011-02-16	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">58375</a>	National Certificate: Bookkeeping	Level 3	NQF Level 03	Reregistered	2015-06-30	FASSET
Fundamental	<a href="#">50308</a>	National Certificate: Bread and Flour Confectionery Baking	Level 3	NQF Level 03	Reregistered	2015-06-30	FOODBEV
Fundamental	<a href="#">65409</a>	National Certificate: Building and Civil Construction	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">67465</a>	National Certificate: Business Administration Services	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">36453</a>	National Certificate: Cake Decorating and Sugar Art	Level 3	NQF Level 03	Reregistered	2015-06-30	FOODBEV
Fundamental	<a href="#">58247</a>	National Certificate: Ceiling and Partitioning Installation	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">74189</a>	National Certificate: Cereals, Snacks, Pasta and Condiments Manufacturing	Level 3	NQF Level 03	Reregistered	2015-06-30	FOODBEV
Fundamental	<a href="#">78528</a>	National Certificate: Chemical Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">58537</a>	National Certificate: Chemical Operations	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2009-06-17	CHIETA until Last Date for Achievement
Fundamental	<a href="#">22867</a>	National Certificate: Chemical Systems Operations	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2005-10-09	Was CHIETA until Last Date for Achievement
Fundamental	<a href="#">48394</a>	National Certificate: Cigarette Filter Rod Production	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">49078</a>	National Certificate: Cigarette Packaging	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">49139</a>	National Certificate: Cigarette Production	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">48973</a>	National Certificate: Clothing, Textiles, Footwear and Leather (CTFL) Mechanician Processes	Level 3	NQF Level 03	Reregistered	2015-06-30	FPMSETA
Fundamental	<a href="#">57877</a>	National Certificate: CNC Production Machining	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">66749</a>	National Certificate: Community Development	Level 3	NQF Level 03	Reregistered	2015-06-30	ETDP SETA
Fundamental	<a href="#">64769</a>	National Certificate: Community Health Work	Level 3	NQF Level 03	Reregistered	2015-06-30	HW SETA

Fundamental	<a href="#">49128</a>	National Certificate: Community Health Work	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-04-08	HW SETA until Last Date for Achievement
Fundamental	<a href="#">64589</a>	National Certificate: Community Water, Health and Sanitation Monitoring	Level 3	NQF Level 03	Reregistered	2015-06-30	EWSETA
Fundamental	<a href="#">80928</a>	National Certificate: Confectionery (Chocolate, Sugar and Biscuit) Manufacturing	Level 3	NQF Level 03	Reregistered	2015-06-30	FOODBEV
Fundamental	<a href="#">50020</a>	National Certificate: Construction and Maintenance of Overhead Track Equipment	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">22670</a>	National Certificate: Construction Carpentry	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-03-12	CETA until Last Date for Achievement
Fundamental	<a href="#">77063</a>	National Certificate: Construction Health and Safety	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">22671</a>	National Certificate: Construction Masonry	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-03-12	CETA until Last Date for Achievement
Fundamental	<a href="#">24196</a>	National Certificate: Construction Material Manufacturing	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">49017</a>	National Certificate: Construction Materials Testing	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">20919</a>	National Certificate: Construction Painting	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-03-12	CETA until Last Date for Achievement
Fundamental	<a href="#">20814</a>	National Certificate: Construction Plastering	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-03-12	CETA until Last Date for Achievement
Fundamental	<a href="#">21853</a>	National Certificate: Construction Plumbing	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2007-09-12	Was CETA until Last Date for Achievement
Fundamental	<a href="#">20815</a>	National Certificate: Construction Tiling	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-03-12	CETA until Last Date for Achievement
Fundamental	<a href="#">49080</a>	National Certificate: Construction: Advanced Crane Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">49081</a>	National Certificate: Construction: Advanced Plant Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">49012</a>	National Certificate: Construction: Concrete Reinforcing	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-05-13	CETA until Last Date for Achievement
Fundamental	<a href="#">49016</a>	National Certificate: Construction: Concreting	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">49602</a>	National Certificate: Construction: Geotechnical	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">24173</a>	National Certificate: Construction: Roadworks	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">65709</a>	National Certificate: Construction: Steelwork	Level 3	NQF Level 03	Reregistered	2015-06-	CETA

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Fundamental	<a href="#">49015</a>	National Certificate: Construction: Structural Steel Erecting	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-05-13	CETA until Last Date for Achievement
Fundamental	<a href="#">80566</a>	National Certificate: Contact Centre and Business Process Outsourcing Support	Level 3	NQF Level 03	Reregistered	2015-06-30	SERVICES
Fundamental	<a href="#">22440</a>	National Certificate: Customs Clearing	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-09-13	Was TETA until Last Date for Achievement
Fundamental	<a href="#">74250</a>	National Certificate: Dairy Primary Processing	Level 3	NQF Level 03	Reregistered	2015-06-30	FOODBEV
Fundamental	<a href="#">50024</a>	National Certificate: Dairy Primary Processing	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-12-02	FOODBEV until Last Date for Achievement
Fundamental	<a href="#">49600</a>	National Certificate: Development Practice	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-05-13	ETDP SETA until Last Date for Achievement
Fundamental	<a href="#">59851</a>	National Certificate: Diamond Processing	Level 3	NQF Level 03	Reregistered	2015-06-30	MQA
Fundamental	<a href="#">66009</a>	National Certificate: Diesel Electric and Electric Fitting	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">49056</a>	National Certificate: Domestic Appliance Repair	Level 3	NQF Level 03	Reregistered	2015-06-30	EWSETA
Fundamental	<a href="#">72051</a>	National Certificate: Electrical Engineering	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">48475</a>	National Certificate: Electrical Engineering	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-02-18	EWSETA until Last Date for Achievement
Fundamental	<a href="#">20419</a>	National Certificate: Electrical Engineering	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2004-02-10	Was EWSETA until Last Date for Achievement
Fundamental	<a href="#">58862</a>	National Certificate: Electro-Mechanical Winding	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">58288</a>	National Certificate: Electro-Mechanics	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">59569</a>	National Certificate: Electronics	Level 3	NQF Level 03	Reregistered	2015-06-30	MICTS
Fundamental	<a href="#">58720</a>	National Certificate: Engineering Fabrication	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">22870</a>	National Certificate: Engineering Fabrication (light or heavy)	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2007-08-16	MERSETA
Fundamental	<a href="#">49752</a>	National Certificate: Environmental Practice	Level 3	NQF Level 03	Reregistered	2015-06-30	LG SETA
	<a href="#">67589</a>			NQF Level		2015-	

Fundamental		National Certificate: Equine Practices	Level 3	03	Reregistered	06-30	CATHSSETA
Fundamental	<a href="#">48916</a>	National Certificate: Explosives Manufacturing Operations	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-06-17	CHIETA until Last Date for Achievement
Fundamental	<a href="#">49089</a>	National Certificate: Financial Services	Level 3	NQF Level 03	Reregistered	2015-06-30	INSETA
Fundamental	<a href="#">48494</a>	National Certificate: Financial Services Management	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2012-06-30	INSETA
Fundamental	<a href="#">20656</a>	National Certificate: Flour Confectionery Baking	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2006-04-20	Was FOODBEV until Last Date for Achievement
Fundamental	<a href="#">58882</a>	National Certificate: Fluid Power	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">57694</a>	National Certificate: Food and Beverage Packaging Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	FOODBEV
Fundamental	<a href="#">50305</a>	National Certificate: Food Laboratory Analysis	Level 3	NQF Level 03	Reregistered	2015-06-30	FOODBEV
Fundamental	<a href="#">50266</a>	National Certificate: Forestry: Silviculture	Level 3	NQF Level 03	Reregistered	2015-06-30	FPMSETA
Fundamental	<a href="#">48988</a>	National Certificate: Forestry: Timber Harvesting	Level 3	NQF Level 03	Reregistered	2015-06-30	FPMSETA
Fundamental	<a href="#">66449</a>	National Certificate: Foundry Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">22442</a>	National Certificate: Freight Forwarding	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-09-13	TETA
Fundamental	<a href="#">59365</a>	National Certificate: Freight Forwarding and Customs Compliance	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">57831</a>	National Certificate: Freight Handling	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">59386</a>	National Certificate: Fresh Meat Processing	Level 3	NQF Level 03	Reregistered	2015-06-30	FOODBEV
Fundamental	<a href="#">48848</a>	National Certificate: Fruit Packing and Grading Processes	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">21787</a>	National Certificate: Funeral Services Practice	Level 3	NQF Level 03	Reregistered	2015-06-30	SERVICES
Fundamental	<a href="#">49105</a>	National Certificate: Furniture Making: Wood	Level 3	NQF Level 03	Reregistered	2015-06-30	FPMSETA
Fundamental	<a href="#">63269</a>	National Certificate: Gaming Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	CATHSSETA
Fundamental	<a href="#">58950</a>	National Certificate: Gas Installations	Level 3	NQF Level 03	Reregistered	2015-06-30	CHIETA
Fundamental	<a href="#">50022</a>	National Certificate: General Draughting	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA



Fundamental	<a href="#">22490</a>	National Certificate: General Security Practices	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2007-11-28	Was SAS SETA until Last Date for Achievement
Fundamental	<a href="#">58577</a>	National Certificate: General Security Practices	Level 3	NQF Level 03	Reregistered	2015-06-30	SAS SETA
Fundamental	<a href="#">57828</a>	National Certificate: Glass Forming	Level 3	NQF Level 03	Reregistered	2015-06-30	CHIETA
Fundamental	<a href="#">23154</a>	National Certificate: Grain Handling Processes	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">48743</a>	National Certificate: Hairdressing	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-04-08	SERVICES until Last Date for Achievement
Fundamental	<a href="#">65749</a>	National Certificate: Hairdressing	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">48887</a>	National Certificate: Hiring Services and Support	Level 3	NQF Level 03	Reregistered	2015-06-30	SERVICES
Fundamental	<a href="#">20175</a>	National Certificate: Hygiene and Cleaning Supervision	Level 3	NQF Level 03	Reregistered	2015-06-30	SERVICES
Fundamental	<a href="#">23258</a>	National Certificate: Industrial Rubber Manufacturing: Mixing OR Extruding OR Moulding OR Calendaring	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2011-02-16	MERSETA
Fundamental	<a href="#">58308</a>	National Certificate: Informal Small Business Practice	Level 3	NQF Level 03	Reregistered	2015-06-30	W&RSETA
Fundamental	<a href="#">61591</a>	National Certificate: Information Technology: End User Computing	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">67329</a>	National Certificate: Inshore Maritime Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">20177</a>	National Certificate: Insurance	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2004-10-10	Was INSETA until Last Date for Achievement
Fundamental	<a href="#">65209</a>	National Certificate: Jewellery Manufacturing	Level 3	NQF Level 03	Reregistered	2015-06-30	MQA
Fundamental	<a href="#">78323</a>	National Certificate: Lamproom Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	MQA
Fundamental	<a href="#">73109</a>	National Certificate: Landscape Irrigation	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">66649</a>	National Certificate: Landscaping	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">58271</a>	National Certificate: Lift Installation and Maintenance	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">58578</a>	National Certificate: Local Government Councillor Practices	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2012-06-30	LG SETA
Fundamental	<a href="#">58644</a>	National Certificate: Local Government Support Services	Level 3	NQF Level 03	Reregistered	2015-06-30	LG SETA

Fundamental	<a href="#">50541</a>	National Certificate: Locksmithing	Level 3	NQF Level 03	Reregistered	2015-06-30	SAS SETA
Fundamental	<a href="#">66329</a>	National Certificate: Lumber Milling	Level 3	NQF Level 03	Reregistered	2015-06-30	FPMSETA
Fundamental	<a href="#">49046</a>	National Certificate: Lump Ore Beneficiation	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-08-20	Was MQA until Last Date for Achievement
Fundamental	<a href="#">48663</a>	National Certificate: Mail Handling	Level 3	NQF Level 03	Reregistered	2015-06-30	SERVICES
Fundamental	<a href="#">24456</a>	National Certificate: Maintaining Vehicles	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-02-06	Was MERSETA until Last Date for Achievement
Fundamental	<a href="#">83946</a>	National Certificate: Management	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">48535</a>	National Certificate: Maritime Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">74532</a>	National Certificate: Measurement, Control and Instrumentation	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">48696</a>	National Certificate: Measurement, Control and Instrumentation	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-04-08	EWSETA until Last Date for Achievement
Fundamental	<a href="#">57880</a>	National Certificate: Meat Processing	Level 3	NQF Level 03	Reregistered	2015-06-30	FOODBEV
Fundamental	<a href="#">59669</a>	National Certificate: Mechanical Engineering: Fitting	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">23274</a>	National Certificate: Mechanical Engineering: Fitting	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-06-25	MERSETA
Fundamental	<a href="#">23255</a>	National Certificate: Mechanical Engineering: Fitting and Machining	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">23278</a>	National Certificate: Mechanical Engineering: Machining	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-10-22	Was MERSETA until Last Date for Achievement
Fundamental	<a href="#">63649</a>	National Certificate: Mechanical Engineering: Machining and Tooling	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">59750</a>	National Certificate: Mechanical Engineering: Pipe-Fitting	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">23280</a>	National Certificate: Mechanical Engineering: Tooling Manufacture	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-10-22	Was MERSETA until Last Date for Achievement
Fundamental	<a href="#">59730</a>	National Certificate: Mechanical Handling (Rigging)	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">22771</a>	National Certificate: Mechatronics	Level 3	NQF Level	Passed the End Date -	2009-07-	MERSETA until Last Date for

				03	Status was "Reregistered"	29	Achievement
Fundamental	<a href="#">67609</a>	National Certificate: Mechatronics	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">63189</a>	National Certificate: Medical Laboratory Assistance	Level 3	NQF Level 03	Reregistered	2015-06-30	
Fundamental	<a href="#">79666</a>	National Certificate: Metal and Engineering Manufacturing Processes	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">21015</a>	National Certificate: Metal and Engineering Manufacturing Processes	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2011-02-16	MERSETA until Last Date for Achievement
Fundamental	<a href="#">48393</a>	National Certificate: Metallised Paper Production	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">58719</a>	National Certificate: Metals Processing	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">49019</a>	National Certificate: Metals Production	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2007-04-07	
Fundamental	<a href="#">64190</a>	National Certificate: Metals Production	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">23453</a>	National Certificate: Micro Finance	Level 3	NQF Level 03	Reregistered	2015-06-30	BANKSETA
Fundamental	<a href="#">62769</a>	National Certificate: Mineral Processing	Level 3	NQF Level 03	Reregistered	2015-06-30	MQA
Fundamental	<a href="#">49044</a>	National Certificate: Mineral Processing, Gold Extraction	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-08-20	Was MQA until Last Date for Achievement
Fundamental	<a href="#">21812</a>	National Certificate: Mining Operations: Underground Coal	Level 3	NQF Level 03	Reregistered	2015-06-30	MQA
Fundamental	<a href="#">65549</a>	National Certificate: Mining Technical Support	Level 3	NQF Level 03	Reregistered	2015-06-30	MQA
Fundamental	<a href="#">63349</a>	National Certificate: Molten Glass Production	Level 3	NQF Level 03	Reregistered	2015-06-30	CHIETA
Fundamental	<a href="#">48434</a>	National Certificate: Molten Glass Production	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-09-17	Was CHIETA until Last Date for Achievement
Fundamental	<a href="#">58143</a>	National Certificate: Music Industry Practice	Level 3	NQF Level 03	Reregistered	2015-06-30	CATHSSETA
Fundamental	<a href="#">79806</a>	National Certificate: Occupational Hygiene and Safety	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">49555</a>	National Certificate: Operation of Mobile Explosives Manufacturing Units	Level 3	NQF Level 03	Reregistered	2015-06-30	CHIETA
Fundamental	<a href="#">48904</a>	National Certificate: Paprika Oleoresin Extraction and Blending	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
	<a href="#">72049</a>			NQF Level		2014-	As per Learning Programmes

Fundamental		National Certificate: Pharmacist Assistance	Level 3	03	Reregistered	06-30	recorded against this Qual
Fundamental	<a href="#">49216</a>	National Certificate: Pipeline Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">49052</a>	National Certificate: Plant Production	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">20889</a>	National Certificate: Plastics Manufacturing	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2005-04-13	Was MERSETA until Last Date for Achievement
Fundamental	<a href="#">49449</a>	National Certificate: Plastics Manufacturing	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">36155</a>	National Certificate: Polymer Composite Fabrication	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">79407</a>	National Certificate: Polymer Compound Manufacturing	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">49579</a>	National Certificate: Poultry Processing	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">49578</a>	National Certificate: Poultry Production	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">21012</a>	National Certificate: Power and Telecommunication Cable Manufacturing	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">23677</a>	National Certificate: Power Plant Auxiliary Systems Operation	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-02-18	EWSETA until Last Date for Achievement
Fundamental	<a href="#">61549</a>	National Certificate: Power Plant Auxiliary Systems Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	EWSETA
Fundamental	<a href="#">78803</a>	National Certificate: Primary Response in Emergencies	Level 3	NQF Level 03	Registered	2013-06-02	
Fundamental	<a href="#">60249</a>	National Certificate: Primary Response in Emergencies	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2010-06-02	HW SETA
Fundamental	<a href="#">57899</a>	National Certificate: Printing and Manufacture of Packaging	Level 3	NQF Level 03	Reregistered	2015-06-30	FPMSETA
Fundamental	<a href="#">58785</a>	National Certificate: Production Technology	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">13716</a>	National Certificate: Professional Driving	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2006-06-29	TETA
Fundamental	<a href="#">50285</a>	National Certificate: Professional Driving	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">50398</a>	National Certificate: Project Support Service	Level 3	NQF Level 03	Reregistered	2015-06-30	SERVICES
Fundamental	<a href="#">57804</a>	National Certificate: Public Administration	Level 3	NQF Level 03	Reregistered	2015-06-30	PSETA
Fundamental	<a href="#">48513</a>	National Certificate: Public Administration	Level 3	NQF Level 03	Passed the End Date - Status was	2006-11-16	Was PSETA until Last Date for Achievement

					"Registered"		
Fundamental	<a href="#">61971</a>	National Certificate: Pulp and Paper Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	FPMSETA
Fundamental	<a href="#">35939</a>	National Certificate: Pulp and Paper Woodyard Operations	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2007-02-01	Was FPMSETA until Last Date for Achievement
Fundamental	<a href="#">49596</a>	National Certificate: Radiation Monitoring	Level 3	NQF Level 03	Reregistered	2015-06-30	EWSETA
Fundamental	<a href="#">49795</a>	National Certificate: Rail Construction and Maintenance	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">66709</a>	National Certificate: Rail Operations (Functional Yard Operations)	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">23893</a>	National Certificate: Rail Operations (Functional Yard Operations)	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-06-17	TETA until Last Date for Achievement
Fundamental	<a href="#">49236</a>	National Certificate: Rail Transport Passenger Services	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2012-06-30	TETA
Fundamental	<a href="#">49066</a>	National Certificate: Railway Signalling: Installation and Scheduled Maintenance of Equipment	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">22992</a>	National Certificate: Refractories Masonry	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">49792</a>	National Certificate: Retail Perishable Food	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2008-10-22	W&RSETA until Last Date for Achievement
Fundamental	<a href="#">48437</a>	National Certificate: Road Transport	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Fundamental	<a href="#">57121</a>	National Certificate: Rockbreaking: Quarrying	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2008-09-17	Was MQA until Last Date for Achievement
Fundamental	<a href="#">62869</a>	National Certificate: Rockbreaking: Surface Excavations	Level 3	NQF Level 03	Reregistered	2015-06-30	MQA
Fundamental	<a href="#">48654</a>	National Certificate: Seed Analysis	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">48656</a>	National Certificate: Seed Processing and Packaging	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">48650</a>	National Certificate: Seed Research and Development Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">65651</a>	National Certificate: Sewing Machine Mechanics	Level 3	NQF Level 03	Reregistered	2015-06-30	FPMSETA
Fundamental	<a href="#">50543</a>	National Certificate: Small Craft Construction	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2009-08-31	MERSETA until Last Date for Achievement
Fundamental	<a href="#">63929</a>	National Certificate: Spirits Production	Level 3	NQF Level 03	Reregistered	2015-06-30	FOODBEV
Fundamental	<a href="#">49400</a>	National Certificate: Steel Tube and Pipe Manufacturing (Seamless Hot-Finished OR	Level 3	NQF Level 03	Passed the End Date - Status was	2012-06-	MERSETA

		Welded OR Cold-Formed)			"Reregistered"	30	
Fundamental	<a href="#">60369</a>	National Certificate: Strata Control Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	MQA
Fundamental	<a href="#">48727</a>	National Certificate: Sugar Manufacturing and Refining Technical Maintenance	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">24217</a>	National Certificate: Thermoplastic Fabrication	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">24295</a>	National Certificate: Timber Roof Erecting	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Fundamental	<a href="#">59019</a>	National Certificate: Tissue Conversion	Level 3	NQF Level 03	Reregistered	2015-06-30	FPMSETA
Fundamental	<a href="#">48637</a>	National Certificate: Tobacco Production	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA
Fundamental	<a href="#">49447</a>	National Certificate: Trade Exhibition Support	Level 3	NQF Level 03	Reregistered	2015-06-30	SERVICES
Fundamental	<a href="#">48798</a>	National Certificate: Tyre and Tyre Component Manufacturing	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">48795</a>	National Certificate: Tyre Assembly	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Fundamental	<a href="#">49688</a>	National Certificate: Victim Empowerment	Level 3	NQF Level 03	Reregistered	2015-06-30	HW SETA
Fundamental	<a href="#">48905</a>	National Certificate: Wastewater Reticulation Services	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-02-19	Was EWSETA until Last Date for Achievement
Fundamental	<a href="#">60190</a>	National Certificate: Water and Wastewater Process Control	Level 3	NQF Level 03	Reregistered	2015-06-30	EWSETA
Fundamental	<a href="#">60155</a>	National Certificate: Water and Wastewater Reticulation Services	Level 3	NQF Level 03	Reregistered	2015-06-30	EWSETA
Fundamental	<a href="#">24213</a>	National Certificate: Welding Application and Practice	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2006-12-03	MERSETA
Fundamental	<a href="#">57886</a>	National Certificate: Welding Application and Practice	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">63409</a>	National Certificate: Wholesale and Retail Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	W&RSETA
Fundamental	<a href="#">48764</a>	National Certificate: Wholesale and Retail Sales Practice	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2008-10-22	Was W&RSETA until Last Date for Achievement
Fundamental	<a href="#">21841</a>	National Certificate: Winding Engine Driving	Level 3	NQF Level 03	Reregistered	2015-06-30	MQA
Fundamental	<a href="#">63869</a>	National Certificate: Winemaking	Level 3	NQF Level 03	Reregistered	2015-06-30	FOODBEV
Fundamental	<a href="#">49083</a>	National Certificate: Wood Products Processing	Level 3	NQF Level 03	Reregistered	2015-06-30	FPMSETA
						2015-	

Fundamental	<a href="#">78863</a>	National Certificate: Yacht and Boat Building	Level 3	NQF Level 03	Reregistered	06-30	MERSETA
Fundamental	<a href="#">60650</a>	Professional Qualification: Business Administration	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Fundamental	<a href="#">79246</a>	Further Education and Training Certificate: Wild Land Fire Fighting	Level 4	NQF Level 04	Reregistered	2015-06-30	FPMSETA

**PROVIDERS CURRENTLY ACCREDITED TO OFFER THIS UNIT STANDARD:**