

**DEPARTMENT OF LABOUR COURSE OUTLINE REQUIREMENTS**

**PROVIDE RISK-BASED PRIMARY EMERGENCY CARE / FIRST AID IN THE WORKPLACE (LEVEL 3)  
LEARNERS NEED TO HAVE COMPLETED LEVEL 1 AND 2 BEFORE COMMENCING WITH LEVEL 3**

- Basic principles in first aid
- Artificial resuscitation (one rescuer CPR)
- Choking
- Wounds and bleeding
- Shock, unconsciousness and fainting
- Fractures
- Burns
- Head and spinal injuries
- Joint injuries
- Chest injuries
- Hand injuries
- Eye injuries
- Multiple injury management CPR (2 rescuer)
- Child / infant resuscitation
- Environmental illness and injuries
- Poisoning, bites and stings Chest pain and paralysis
- Fits (epilepsy)
- Elementary and applied anatomy and physiology
- Pelvic, abdominal and crush injuries
- Water accidents
- Fits, breathing emergencies and Allergic reactions
- Behavioural problems
- Emergency childbirth



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**SOUTH AFRICAN QUALIFICATIONS AUTHORITY  
REGISTERED UNIT STANDARD:**

**Provide risk-based primary emergency care/first aid in the workplace**

| <b>SAQA US ID</b>                  | <b>UNIT STANDARD TITLE</b>   |  |                 |  |
|------------------------------------|--|--|-----------------|--|
| 120496                             | Provide risk-based primary emergency care/first aid in the workplace |  |                 |  |
| <b>ORIGINATOR</b>                  |  |  |                 |  |
| SGB Occupational Health and Safety |  |  |                 |  |
| <b>QUALITY ASSURING BODY</b>       |  |  |                 |  |
| -                                  |  |  |                 |  |
| <b>FIELD</b>                       |  |  | <b>SUBFIELD</b> |  |

|  |                           |                                  |                              |                             |
|--|---------------------------|----------------------------------|------------------------------|-----------------------------|
| Field 09 - Health Sciences and Social Services |                           |                                  | Preventive Health            |                             |
| <b>ABET BAND</b>                               | <b>UNIT STANDARD TYPE</b> | <b>PRE-2009 NQF LEVEL</b>        | <b>NQF LEVEL</b>             | <b>CREDITS</b>              |
| Undefined                                      | Regular-Fundamental       | Level 2                          | NQF Level 02                 | 5                           |
| <b>REGISTRATION STATUS</b>                     |                           | <b>REGISTRATION START DATE</b>   | <b>REGISTRATION END DATE</b> | <b>SAQA DECISION NUMBER</b> |
| Reregistered                                   |                           | 2015-07-01                       | 2018-06-30                   | SAQA 10105/14               |
| <b>LAST DATE FOR ENROLMENT</b>                 |                           | <b>LAST DATE FOR ACHIEVEMENT</b> |                              |                             |
| 2019-06-30                                     |                           | 2022-06-30                       |                              |                             |

*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 replaces:

| US ID  | Unit Standard Title  | Pre-2009 NQF Level | NQF Level    | Credits | Replacement Status |
|--------|--|--------------------|--------------|---------|--------------------|
| 116507 | Explain the functional aspects of the human anatomy in the use of primary emergency care terminology | Level 2            | NQF Level 02 | 1       | Complete           |
| 12483  | Perform basic first aid  | Level 2            | NQF Level 02 | 4       | Complete           |
| 9965   | Render basic first aid   | Level 2            | NQF Level 02 | 3       | Complete           |
| 113929 | Render basic first aid in an office workplace  | Level 2            | NQF Level 02 | 4       | Complete           |

#### **PURPOSE OF THE UNIT STANDARD**

This Unit Standard will be useful for employees to enable them to provide primary emergency care (first aid) in response to an occupational risk induced or any health emergency in their specific workplaces.

Qualifying learners are able to:

- Demonstrate the principles of primary emergency care.
- Assess and control a single injury emergency scene in the workplace.
- Demonstrate primary emergency life support for adults, children and infants.
- Explain and manage shock.
- Carry out secondary assessment of the sick or injured person and provide appropriate primary emergency care at the scene.
- Keep records of the incident/accident.

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

- Communication at NQF Level 1 or ABET Level 4.
- Mathematical Literacy at NQF Level 1.

In order for the learner to achieve this unit standard the learner must already be competent in:

- Unit Standard ID 14656: "Demonstrate an understanding of sexuality and sexually transmitted infections including HIV/AIDS".

#### **UNIT STANDARD RANGE**

This unit standard covers the recognition and management of the following range of emergencies for adults, children and infants according to current and accepted emergency care protocols and principles:

- Emergency scene management.
- Rescue breathing, CPR and choking for adults, children and infants.
- Shock.
- Bleeding and wounds.
- Neck and spine immobilization and transportation.
- Fractures and dislocations.
- Burns.
- Thermal stress.
- Poisoning.
- Medical emergencies.

### **Specific Outcomes and Assessment Criteria:**

**SPECIFIC OUTCOME 1**

Demonstrate the principles of primary emergency care in the workplace.

**OUTCOME RANGE**

All health emergencies for people of all the ages.

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

The aims of primary emergency care are identified in the evidence.

**ASSESSMENT CRITERION RANGE**

- Protection against further injury.
- Preservation of life.
- Promotion of recovery.
- Prevention of injuries for people at any age.
- Promotion of healthy lifestyles.

**ASSESSMENT CRITERION 2**

Personal protective devices and infectious disease prevention procedures (universal precautions), used during treatment of casualties, are identified and their purpose and application correctly described and demonstrated.

**ASSESSMENT CRITERION RANGE**

- Personal protective equipment must include; surgical gloves, mouthpieces/respiration devices.
- Universal precaution procedures must cover the safe management of body fluid spills.

**ASSESSMENT CRITERION 3**

The medico-legal implications of primary emergency care are explained in terms of existing relevant legislation.

**ASSESSMENT CRITERION RANGE**

- Occupational health and safety legislation.
- Common law principles.

**SPECIFIC OUTCOME 2**

Sustain a basic level of preparedness for health emergencies in the workplace.

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

The content of the relevant primary emergency care/first aid kit is demonstrated in accordance with the current relevant legislation and associated regulations.

**ASSESSMENT CRITERION 2**

The maintenance and storage of the relevant risk based primary emergency care kit is described and demonstrated where relevant in accordance with accepted workplace procedures.

**SPECIFIC OUTCOME 3**

Assess and manage an emergency scene in the workplace.

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

The principles of emergency scene management are explained and demonstrated in accordance with current accepted emergency care practices.

**ASSESSMENT CRITERION RANGE**

Time limitations, golden hour concept, emergency rules.

**ASSESSMENT CRITERION 2**

The primary emergency care process is explained and demonstrated in accordance with current accepted practice.

**ASSESSMENT CRITERION RANGE**

- Primary assessment.
- Secondary assessment.
- Continual care.
- Recording and reporting.

**ASSESSMENT CRITERION 3**

Assistance is called for according to workplace procedures.

**ASSESSMENT CRITERION 4**

The emergency scene is assessed for safety risks and the specific workplace hazards managed according to accepted safety

procedures.

**ASSESSMENT CRITERION 5**

The initial scene assessment identifies emergency requirements and the scene is made safe according to accepted safety procedures.

**ASSESSMENT CRITERION 6**

Triage and primary assessment is explained and demonstrated.

**ASSESSMENT CRITERION RANGE**

Priority order must include: airways; breathing; circulation; internal and external injuries and/or medical conditions.

**ASSESSMENT CRITERION 7**

Available resources are utilised to the benefit of the sick or injured person(s).

**ASSESSMENT CRITERION RANGE**

First responders assigned tasks according to priority and sound primary emergency principles and suitable materials used.

**ASSESSMENT CRITERION 8**

Emergency services are activated according to workplace and area procedures.

**ASSESSMENT CRITERION 9**

Secondary assessment is conducted according and managed according to current protocol.

**ASSESSMENT CRITERION 10**

Continual care is explained and demonstrated according to current protocol.

**SPECIFIC OUTCOME 4**

Demonstrate primary emergency life support for adults, children and infants according to current international protocols.

**OUTCOME NOTES**

Appropriately sized manikins must be used for the purpose of this assessment.

**ASSESSMENT CRITERIA**

**ASSESSMENT CRITERION 1**

The choking person(s) are managed according to accepted protocols.

**ASSESSMENT CRITERION RANGE**

Foreign bodies, strangulation, suffocation, asphyxia.

**ASSESSMENT CRITERION 2**

Rescue breathing is explained and demonstrated according to accepted protocols.

**ASSESSMENT CRITERION 3**

Recovery position is appropriately utilized.

**ASSESSMENT CRITERION 4**

One rescuer Cardio-Pulmonary resuscitation (CPR) is explained and demonstrated with and without the use of barrier ventilation devices, according to accepted protocols.

**ASSESSMENT CRITERION 5**

Bleeding is controlled according to current protocols using direct pressure/bandages or suitable materials.

**SPECIFIC OUTCOME 5**

Explain and manage shock.

**OUTCOME RANGE**

General shock, Anaphylaxis.

**ASSESSMENT CRITERIA**

**ASSESSMENT CRITERION 1**

Shock is identified, explained and managed according to accepted protocols.

**ASSESSMENT CRITERION 2**

Anaphylactic shock is identified, explained and managed symptomatically according to accepted protocols.

**SPECIFIC OUTCOME 6**

Conduct secondary assessment of the sick and/or injured person and provide appropriate primary emergency care within the workplace.

**OUTCOME RANGE**

The learner must be able to identify and manage injuries and/or illnesses specific to his/her particular workplace.

**ASSESSMENT CRITERIA**

**ASSESSMENT CRITERION 1**

Immobilisation and transporting techniques for persons with neck and/or spinal injuries are demonstrated according to accepted emergency and workplace protocols.

**ASSESSMENT CRITERION 2**

Head injuries and levels of consciousness are recognised, monitored and managed according to accepted protocols.

**ASSESSMENT CRITERION 3**

Fractures, dislocations and sprains immobilized in the position of most comfort to the affected person.

**ASSESSMENT CRITERION 4**

Wounds are managed according to current accepted protocols.

**ASSESSMENT CRITERION RANGE**

Amputations, abrasions, lacerations, punctures, embedded objects, gunshot wounds, hand and eye wounds, human/animal/marine/insect/reptile bites and stings.

**ASSESSMENT CRITERION 5**

Burn wounds are managed according to current accepted practices.

**ASSESSMENT CRITERION RANGE**

Classification, causes, infection control.

**ASSESSMENT CRITERION 6**

Thermal stress.

**ASSESSMENT CRITERION RANGE**

Febrile patient; hyper/hypothermia.

**ASSESSMENT CRITERION 7**

Poisoned patients managed according to current accepted protocols.

**ASSESSMENT CRITERION RANGE**

Common and workplace accidental poisoning; overdose; animal/marine/insect/reptile bites and stings.

**ASSESSMENT CRITERION 8**

Illnesses common to the workplace are recognised and described according to current accepted practices.

**ASSESSMENT CRITERION RANGE**

Diabetes, epilepsy, asthma, stroke, heart attack.

**SPECIFIC OUTCOME 7**

Keep records of the incident/accident.

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

The scenario and condition of the sick or injured person is communicated to the relevant receiving party during transferral and in accordance with current accepted workplace and emergency care procedures.

**ASSESSMENT CRITERION 2**

The incident/accident is reported in accordance with current and accepted workplace procedures and policies.

**UNIT STANDARD ACCREDITATION AND MODERATION OPTIONS**

Anyone assessing a candidate against this unit standard must be registered as an assessor with the relevant ETQA or ETQA where a Memorandum of Understanding exists with the relevant ETQA.

Any institution offering learning that will enable achievement of this unit standard must be accredited as a provider through the relevant ETQA or ETQA where a Memorandum of Understanding exists with the relevant ETQA.

Moderation of assessment will be overseen by the relevant ETQA according to the moderation guidelines and the agreed ETQA procedures.

**UNIT STANDARD ESSENTIAL EMBEDDED KNOWLEDGE**

- The scope of practice of a first responder.
- Patient consent and recording.
- Primary and secondary assessment.
- Principles of primary emergency health care.

- Universal precautions regarding safe management of blood and body fluids.
- Specific management of sick or injured adults, children or infants in health emergencies.

#### **UNIT STANDARD DEVELOPMENTAL OUTCOME**

N/A

#### **UNIT STANDARD LINKAGES**

N/A

### **Critical Cross-field Outcomes (CCFO):**

#### **UNIT STANDARD CCFO IDENTIFYING**

Identify and solve problems regarding the mechanisms of injuries and make decisions, using critical and creative thinking, regarding the prevention of complications, referral systems to use and the treatment to be provided with improvisation where equipment is unavailable.

#### **UNIT STANDARD CCFO WORKING**

Work effectively with others as members of a first response team, fires, fire services, ambulance and civil defence/disaster services.

#### **UNIT STANDARD CCFO ORGANISING**

Organise and manage activities responsibly in respect of scene control, establishing the order of treatment (triage) and managing the first response team effectively.

#### **UNIT STANDARD CCFO COLLECTING**

Assess, analyse and critically evaluate information with regards signs and symptoms and explain meanings and results.

#### **UNIT STANDARD CCFO COMMUNICATING**

Communicate effectively using visual, mathematical, and/or language skills in the modes of oral and/or written presentations when managing the sick or injured person, the team and when reporting effectively to emergency health personnel indicates proficiency.

#### **UNIT STANDARD CCFO SCIENCE**

Use science and technology effectively and critically with regard to information and communication systems used to mobilise the emergency services and correctly utilising available emergency equipment responsibility towards the environment and health of others.

#### **UNIT STANDARD CCFO DEMONSTRATING**

Demonstrate an understanding of the world as a set of related systems as applied to the management of emergency situations.

#### **UNIT STANDARD ASSESSOR CRITERIA**

N/A

#### **REREGISTRATION HISTORY**

As per the SAQA Board decision/s at that time, this unit standard was Reregistered in 2012; 2015.

#### **UNIT STANDARD NOTES**

This unit standard replaces unit standards:

- 116507, "Explain the functional aspects of the human anatomy in the use of primary emergency care terminology", Level 2, 1 credits.
- 12483, "Perform basic first aid", Level 2, 4 credits.
- 9965, "Render basic first aid", Level 2, 3 credits.
- 113929, "Render basic first aid in an office workplace", Level 2, 4 credits.

Recognition of Prior Learning (RPL):

This Unit Standard can be achieved in part, through recognition of prior learning. Evidence can be presented in a variety of forms, including previous current (within 2 year period) international or local primary emergency care/first aid qualifications, reports, testimonials, mentoring, functions performed, portfolios, work records and performance records. As such, evidence should be judged according to the general principles of assessment. Learners who have met the requirements of this Unit Standard may apply for recognition of prior learning to the relevant Education and Training Quality Assurance (ETQA) body. The applicant must be assessed against the specific outcomes and with the assessment criteria of this Unit Standard.

Special note:

- This unit standard can be taken as an alternative to the unit standard: "Provide basic primary emergency care as a citizen first responder", as it builds on that unit standard within the workplace context.

Credit justification:

Total hours required by the learner to achieve the required outcomes:

> Activity:

- > Classroom learning: 16 Hours
- > Coaching, on-the-job/scenarios/roll plays: 28 Hours
- > Self directed learning: 6 Hours
- > Total: 50 Hours

Credits achieved: 5

**QUALIFICATIONS UTILISING THIS UNIT STANDARD:**

|          | ID                    | QUALIFICATION TITLE  | PRE-2009 NQF LEVEL | NQF LEVEL    | STATUS  | END DATE   | QUALITY ASSURING BODY                                 |
|----------|-----------------------|--|--------------------|--------------|---|------------|---|
| Core     | <a href="#">65789</a> | National Certificate: Construction Plant Operations                            | Level 2            | NQF Level 02 | Reregistered                                    | 2018-06-30 | CETA  |
| Core     | <a href="#">71491</a> | National Certificate: Equine Studies   | Level 2            | NQF Level 02 | Reregistered                                    | 2018-06-30 | CATHSSETA   |
| Core     | <a href="#">58433</a> | National Certificate: Fishing Operations                                       | Level 2            | NQF Level 02 | Passed the End Date - Status was "Reregistered" | 2015-06-30 | TETA  |
| Core     | <a href="#">96402</a> | National Certificate: Hot Water System Installation                            | Level 2            | NQF Level 02 | Reregistered                                    | 2018-06-30 | As per Learning Programmes recorded against this Qual |
| Core     | <a href="#">74269</a> | National Certificate: Occupational Health, Safety and Environment              | Level 2            | NQF Level 02 | Reregistered                                    | 2018-06-30 | As per Learning Programmes recorded against this Qual |
| Core     | <a href="#">65709</a> | National Certificate: Construction: Steelwork                                  | Level 3            | NQF Level 03 | Reregistered                                    | 2018-06-30 | CETA  |
| Core     | <a href="#">72049</a> | National Certificate: Pharmacist Assistance                                    | Level 3            | NQF Level 03 | Reregistered                                    | 2018-06-30 | As per Learning Programmes recorded against this Qual |
| Elective | <a href="#">71751</a> | General Education and Training Certificate: Adult Basic Education and Training | Level 1            | NQF Level 01 | Reregistered                                    | 2018-06-30 | As per Learning Programmes recorded against this Qual |
| Elective | <a href="#">66269</a> | General Education and Training Certificate: Lumber Milling                     | Level 1            | NQF Level 01 | Reregistered                                    | 2018-06-30 | FPMSETA   |
| Elective | <a href="#">78944</a> | National Certificate: Autotronics  | Level 2            | NQF Level 02 | Reregistered                                    | 2018-06-30 | MERSETA   |
| Elective | <a href="#">79408</a> | National Certificate: Polymer Compound Manufacturing                           | Level 2            | NQF Level 02 | Reregistered                                    | 2018-06-30 | MERSETA   |
| Elective | <a href="#">58577</a> | National Certificate: General Security Practices                               | Level 3            | NQF Level 03 | Reregistered                                    | 2018-06-30 | SAS SETA  |
| Elective | <a href="#">78323</a> | National Certificate: Lamproom Operations                                      | Level 3            | NQF Level 03 | Reregistered                                    | 2018-06-30 | MQA   |
| Elective | <a href="#">79806</a> | National Certificate: Occupational Hygiene and Safety                          | Level 3            | NQF Level 03 | Reregistered                                    | 2018-06-30 | As per Learning Programmes recorded against this Qual |
| Elective | <a href="#">90656</a> | National Certificate: Mine Ventilation   | Not Applicable     | NQF Level 02 | Reregistered                                    | 2018-06-30 | MQA   |
| Elective | <a href="#">90655</a> | National Certificate: Small Scale Mining                                       | Not Applicable     | NQF Level 03 | Reregistered                                    | 2018-06-30 | MQA   |

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

*This information shows the current accreditations (i.e. those not past their accreditation end dates), and is the most complete record available to SAQA as of today. Some Quality Assuring Bodies have a lag in their recording systems for provider accreditation, in turn leading to a lag in notifying SAQA of all the providers that they have accredited to offer qualifications and unit standards, as well as any extensions to accreditation end dates. The relevant Quality Assuring Body should be notified if a record appears to be missing from here.*

1. A&R ENGINEERING & MINING SUPPLIES PTY LTD
2. Abasizi Contract Development Services cc
3. Action Training Academy

4. Aids Foundation of South Africa
5. Alpha-care
6. Amandlolwazi Training Centre
7. Ambu Training CC
8. Amokoro Training (PTY) Ltd
9. Amokoro Training Coastal (pty) ltd
10. Anglo American Platinum Limited - Mogalakwena Mining Training Centre
11. ANGLOGOLD ASHANTI LTD (V/R)
12. Applause Training
13. ASSMANG LTD
14. ASSOCIATED MANGANESE MINES OF SA LTD
15. BPC HR Solutions (PRETORIA) (TP)
16. Bravospace 139 cc T/A Metro Skills Academy (PORT ELIZABETH) (TP)
17. Chamdor Driver Training CC
18. CLEAN HEAT ENERGY SAVING SOLUTIONS (PTY) LTD
19. Coalition Trading 1238 cc
20. COLLIERY TRAINING COLLEGE
21. Concor Projects (pty) Ltd
22. Dawsons Training Academy (Pty) Ltd (DURBAN) (TP)
23. De Beers Consolidated Mines Ltd - Kimberley
24. De Beers Voorspoed Mine
25. DEKRA Industrial (PTY) Ltd
26. DIMENSIONAL & EDU TRAINING
27. Dkj Paramedic College Cc
28. Dynamikos Training Network
29. Eastcape Midlands Public FET College - Charles Good Year Campus
30. Eastcape Midlands Public FET College - Uitenhage (High Street)Campus
31. EFS Skilled Labour Training (BRITS) (TP)
32. Elite Operator and Skills Training
33. Elizma Goltz
34. Emcare
35. Exxaro Coal Pty Ltd
36. FOSKOR Pty Ltd
37. Freeway Training CC
38. Fundisa Zonke Training Academy
39. G T Training Service Provider
40. Glen Lilly Outsourcing Serviecs
41. HARMONY GOLD MINING COMPANY LIMITED
42. He and She Driver Training Centre
43. Hotazel Manganese Mines (pty)ltd
44. HUMULANI MARKERTING
45. Imperial Technical Training Academy (GERMISTON) (TP)
46. Imperial Technical Training Academy (WADEVILLE) (TP)
47. INDUSTRIES EDUCATION & TRAINING INSTITUTE
48. Ingelosi Trading 269 cc
49. Ingozi Medicals
50. Integral Risk Advisors cc
51. Kbc Health And Safety (PTY) Ltd
52. KINGSBURY INTERNATIONAL COLLEGE (SA) PTY LTD
53. KUMBA IRON ORE (SISHEN)

54. Kumba Sishen HRD Centre
55. McCarthy Academy Cape Town (BLACKHEATH) (TP)
56. McCarthy Automotive Artisan Academy (MIDRAND) (TP)
57. McCarthy Automotive Artisans Academy (PINETOWN) (TP)
58. MINES RESCUE SERVICES PTY LTD
59. MOOLMAN BROS CONST CO PTY
60. MPACT
61. MURRAY & ROBERTS CEMENTATION PTY LTD
62. Northlink College - Bellville Campus
63. NSA MultiServicers cc T/A Riverport SHE Training Academy (GONUBIE) (TP)
64. Orbit FET College - Mankwe Campus
65. Palabora Copper Pty Ltd
66. People Management & Development Services
67. PG BISON PTY (LTD)
68. Phiwokuhle Projects CC
69. Pitt Institute T/A Imithombo Institute
70. Powerpro Technologies and Training Facility (PTY) LTD
71. Prisma Training Solutions
72. Professional Development and Training Institute (Pty) Ltd
73. PUTCO Limited
74. Pyro-Med cc
75. RISKCOM RCCT
76. Schoolboy Training Centre
77. SENZEKO EXECUTIVE RISK CC
78. Seoposengoe Training Consultancy
79. Service Corps T/A Works Training School (ELANDSFONTEIN) (TP)
80. Sgegede First Aid Training Cc
81. SIYEMBA MINING
82. Solly"s SkillsTraining Centre
83. South African Fire and Medical Academy ( SAFMA)
84. South African Fire and Medical Academy (SAFMA)
85. South African First Aid League
86. Southern African Institute of Learning
87. Technology Risk Solutions
88. Thamali Trading Enterprise
89. The Automobile Association of South Africa T/A AA Training Academy (MO)
90. The Automobile Association South Africa T/A AA Training Academy (MIDRA)
91. The Order of St John for South Africa
92. Tjeka Training Matters Pty Ltd
93. Training Force (Pty) Ltd
94. Trainsure -Tsebo Traiding cc
95. Transvaal Training
96. Triton Training and Development
97. TROLLOPE MINING SERVICES (PTY) LTD
98. Tshwane South Public FET College - Centurion Campus
99. Tubular Holdings (Pty) Ltd (EMALAHLENI) (TP)
100. Uitenhage Despatch Skills Development (Pty) Ltd (UITENHAGE) (TP)
101. Uthungulu HRD
102. Volkswagen of South Africa (Pty) Ltd - Technical Learning Academy (UIT)
103. VPK BUSINESS VENTURE C.C

104. X-Factor Safety Consultants
105. XSTRATA COAL
106. Xstrata South Africa t/a CHROME DIVISION-RUSTENBURG PLANT
107. XTRACT TRAINING SERVICES (PTY) LTD
108. ZAAIMAN EXPLORATION DRILLING (PTY) LTD

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