No. 590 **13 July 2007**

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

Safety in Society

registered by Organising Field 08, Law Military Science and Security, publishes the following Qualification and Unit Standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the Qualification and Unit Standards. The full Qualification and 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 Qualification and Unit Standards should reach SAQA at the address below ***and no later 13 August 2007.*** All correspondence should be marked **Standards Setting – Safety in Society** 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 – 431-5144
e-mail: dmphuthing@saqa.org.za

DR. S. BHIKHA
DIRECTOR: STANDARDS SETTING AND DEVELOPMENT

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION:
Further Education and Training Certificate: Electronic Security Installation Practices

SAQA QUAL ID	*QUALIFICATION TITLE*		
58697	Further Education and Training Certificate: Electronic Security Installation Practices		
ORIGINATOR		*PROVIDER*	
SGB Security			
QUALIFICATION TYPE	*FIELD*	*SUBFIELD*	
Further Ed and Training Cert	8 - Law, Military Science and Security	Safety in Society	
ABET BAND	*MINIMUM CREDITS*	*NQF LEVEL*	*QUAL CLASS*
Undefined	128	Level 4	Regular-Unit Stds Based

PURPOSE OF THE QUALIFICATION
This qualification will allow a learner in the electronic security industry to obtain a nationally recognized qualification. This qualification will contribute towards a safer society, as it will set standards of professionalism needed by the industry. Learners will be able to plan effectively, install and configure electronic security systems and utilise equipment while applying safety and health principles. This qualification provides learners with knowledge and skills to effectively install, configure, test and hand-over electronic security systems to meet the customer's needs and satisfaction. The elective component of this qualification will allow a qualifying learner to demonstrate knowledge and understanding of specialised electronic security systems.

This qualification is designed to develop skills and knowledge required for learners to specialise in the planning, installing and configuring of electronic security systems such as closed circuit television (CCTV) systems, access controls systems, access automation systems, alarm systems as well as electric fence systems and intercom systems. These competencies will be applicable in wide range of contexts such as residential, commercial and industrial contexts and will significantly broaden the learner's employability.

A learner who has achieved this qualification will be capable of combining a range of self-organisation and life long skills with a working knowledge of South African electronic security issues, and integrating these within context to produce a professional practice which adheres to the high quality standards as expected by the security industry.

Competent learners will be able to:

- Install electronic security systems.
- Communicate with clients.
- Apply elementary physical science related concepts.

Rationale:

Electronic security is one of the major contributors to producing a safer society and environment. It creates a sense of security that is needed to support various political, social, economic and business agendas. The reduction of crime is currently a national prerogative on various levels as it leads and contributes towards a stable environment.

It has become clear that relying on human resources only for crime reduction and prevention purposes will not have the effect on crime levels currently desired. Hence, an initiative to find other ways and methods of dealing with crime prevention and reduction are embraced by both the government and the private sector. The use and importance of electronic security equipment has thus been highlighted in recent years.

Electronic security systems promote proactive prevention and reduction of crime, protection of persons and property and securing and provision of information as evidence, where necessary, to protect the broader society against crime. This qualification will provide electronic security standards aimed at supporting industry sectors, public or private companies, large and small, by identifying security risks and minimizing security breaches in any given environment.

This qualification reflects the workplace-based needs of the electronic security industry that are expressed by employers and employees. This qualification provides learners with accessibility to be employed within the electronic security industry and provides the flexibility to pursue an electronic security career with a wide variety of specialization options within this industry.

RECOGNIZE PREVIOUS LEARNING?
Y

LEARNING ASSUMED IN PLACE
- Communication at NQF Level 2.
- Mathematical Literacy at NQF Level 3.
- Use of hand tools at NQF Level 2.
- Use of power tools at NQF Level 2.

Recognition of Prior Learning:

The structure of this qualification makes the Recognition of Prior Learning possible through the assessment of individual Unit Standards. This qualification may therefore be achieved in part or completely through the recognition of prior learning, which includes formal, informal and non-formal learning and work experience. The learner should be thoroughly briefed on the mechanism to be used and support and guidance should be provided. Care should be taken that the mechanism used provides the learner with an opportunity to demonstrate competence and is not so onerous as to prevent learners from taking up the RPL option towards gaining a qualification.

If the learner is able to demonstrate competence in the knowledge, skills, values and attitudes implicit in this qualification the appropriate credits should be assigned to the learner.

This Recognition of Prior Learning may allow:

- Accelerated access to further learning at this or higher levels on the NQF.
- Gaining of credits for unit standards in the qualification.
- Obtaining of this Qualification in part or in whole.

Access to the Qualification:

Open access.

QUALIFICATION RULES
- Learners must complete all the fundamental unit standards to the value of 56 credits.
- Learners must complete all the core unit standards to the value of 57 credits.
- Learners must complete unit standards to the value of at least 15 credits in the elective credits.

• The elective unit standards are clustered to provide areas of specialisation within the electronic security domain. Learners choosing an area of specialisation must complete all unit standards listed within that area of specialisation.

The specialisations are:

CCTV Specialisation:

• Demonstrate an understanding of CCTV.
• Install Close Circuit TV.

Access Control Systems Specialisation:

• Demonstrate an understanding of electronic access control.
• Install electronic access control systems.

Gate Automation System Specialisation:

• Demonstrate an understanding of gate automation.
• Install a gate automation system.

Electric Fencing Specialisation:

• Demonstrate an understanding of electric fencing.
• Install electric fencing.

Alarm System Specialisation:

• Demonstrate an understanding of intruder alarm systems.
• Install a basic radio transmitter and antenna system.

The elective component of this qualification is left open ended in order to allow the learner to choose unit standards that will add to this qualification.

EXIT LEVEL OUTCOMES

1. Install electronic security systems.

2. Communicate with clients.

3. Apply elementary physical science related concepts.

Critical Cross-Field Outcomes:

This qualification addresses the following Critical Cross-Field Outcomes, as detailed and expressed in the associated unit standards:

1. Identifying and solving electronic security problems where responses indicate that responsible decisions using critical and creative thinking have been made when doing installations and trying to met clients needs and demands.

2. Working effectively with others as a member of a team, group, organisation, or community by participating effectively in carrying joint work with other people and helping to improve the work of his/her immediate team to meet organizational goals and objectives.

3. Organizing and managing oneself and one's activities responsibly and effectively through prioritizing personal tasks and maintaining as well as implementing a task list.

4. Collecting, analysing, organizing and critically evaluate information to determine and implement course of action.

5. Communicating effectively, using visual, mathematical and/or language skills in the modes of oral and/or written communication and persuasion when dealing with clients and designing systems and installations.

6. Using science and technology effectively and critically, showing responsibility towards the environment and the well being of others by using technology solutions for electronic security.

7. Demonstrating an understanding of the world as a set of related systems by recognizing that problem-solving contexts do not exist in isolation and engage with complex interrelated aspects of society and challenges and demands of electronic security from the legal, ethical, economical and political perspectives.

8. Participating as responsible citizens in the life of local, national and global communities as the knowledge and skills acquired will contribute towards effective and efficient electronic security practice.

ASSOCIATED ASSESSMENT CRITERIA
Assessment Criteria for Exit Level Outcome 1:

1.1 Cabling techniques are demonstrated when performing installations.
2.2 Equipment is used according to their specifications and applications.
Range: Equipment refers to but is not limited to testing equipment, electronic equipment and installation equipment.
3.3 Operational requirements are determined for an installation according to given specifications.
4.4 An installation is configured according to given specifications.
5.5 An installation is assessed to determine faults and whether it complies with given specifications.
6.6 An installation is conducted according to given manufacturers specifications and legal prescripts.

Assessment Criteria for Exit Level Outcome 2:

2.1 Clients are interviewed to establish specifications and requirements of an installation.
2.2 Client service principles are applied when dealing with clients.
2.3 The importance of ethical behaviour is emphasised within the electronic security industry.

Assessment Criteria for Exit Level Outcome 3:

3.1 Principles of elementary electronics are applied when installing electronic security systems.
3.2 Principles of elementary mathematics are applied when installing electronic security systems.
3.3 Principles of elementary statistics are applied when installing electronic security systems.

Integrated Assessment:

Integrated assessments at the level of qualification provides an opportunity for learners to show that they are able to integrate concepts, ideas and actions across unit standards to achieve competence that is grounded and coherent in relation to the purpose of the qualification.

The applied competence (practical, foundational and reflective competencies) of this qualification will be achieved if a person is able to plan, design, install and program a wide range of electronic security systems and equipment. This planning, installation and programming of a system/equipment must be safe for society, quality assured and comply with minimum legislation.

The identifying and solving of problems, team work, organising one-self, the using of applied science, the implications of actions and reactions in the world as a set of related systems must be assessed during any combination of practical, foundational and reflexive competency assessment methods and tools to determine the whole person development and integration of applied knowledge and skills.

Applicable assessment tools to establish the foundational, reflective and embedded knowledge to problem solving and application of the world as a set of related systems within the electronic security environment.

A broad range of task orientated and theoretical assessment tools may be used.

A detailed portfolio of evidence may be required to prove the practical, applied and foundational competencies of the learner.

Assessors and moderators should develop and conduct their own integrated assessment by making use of a range of formative and summative assessment methods. Assessors should assess and give credit for the evidence of learning that has already been acquired through formal, informal and non-formal learning and experience.

INTERNATIONAL COMPARABILITY

International searches were conducted to ensure that the qualification and its associated unit standards meet international standards. The comparison focused on the specific practices within the electronics security practices environment in terms of the qualification level, scope and competencies covered. The search provided a list of qualifications and the relevant awarding bodies accredited to provide a wide range of academic and vocational qualifications in this field. The world leader in the field of electronic security is the United Kingdom and hence a comparison was done with the qualifications in the UK. New Zealand was also used to conduct a comparison against, as their usage of electronic security systems are very similar to South Africa.

United Kingdom:

ETITO is an institution accredited with the United Kingdom Qualifications Authority that supports apprentices and employers within apprenticeship programmes including the Electronic Security industry. It is an institution that is recognised by government and the Electro-Technology industry as the national standards setting body involved in developing national qualifications, secure training and assessment, and manage quality of training. Some of the units standards contained in the qualification offered by ETITO compare favourably with the FETC: Electronic Security:

- "Regulations and standards applicable to electronic security" is covered in the embedded knowledge components of unit standards found in the FETC: Electronic Security where legal prescripts are dealt with.
- "Electronic security sub-systems and terminology" is covered in specific outcomes of unit standards found in the FETC: Electronic Security where terminology is dealt with.
- "Electronic security installation requirements and procedures" covers similar competencies as found in the unit standard: "Determine Installation Requirements" found in the FETC: Electronic Security.

• "Connection, Testing and programming of intruder alarm systems" covers similar competencies as found in the unit standard: "Configure an installation" found in the FETC: Electronic Security.
• "Cable support systems and cables" covers similar competencies as found in the unit standard: "Apply cabling methods" found in the FETC: Electronic Security.
• "Practical installation of intruder alarm systems" covers similar competencies as found in the elective component of the FETC: Electronic Security.
• The fundamental component and Exit Level Outcomes of the FETC Electronic Security deal with two unit standards dealing with "Report Writing" and "Customer Service" in the UK based qualification.
• "Design electronic security intercom systems" and "Design electronic security CCTV systems" covers similar competencies as found in the elective component of the FETC: Electronic Security.

A City and Guilds qualification at level 3 on the UK NVQ entitled: "Security, emergency and alarm systems" is similar to the FETC. The following standards in this qualification compare well with the unit standards found in the FETC: Electronic Security:

• "Communicate effectively in the workplace" covers similar competencies as found in the unit standard named "Accommodate audience and context needs in oral/signed communication" found in the FETC: Electronic Security.
• "Plan the installation of security, emergency or alarm systems and services" covers similar competencies as found in the unit standard "Determine Installation Requirements" found in the FETC: Electronic Security.
• "Diagnose and rectify faults on security, emergency or alarm systems" covers similar competencies as found in the unit standard "Determine and rectify faults in an installation" found in the FETC: Electronic Security.
• "Install cabling for security, emergency or alarm systems" covers similar competencies as found in the unit standard "Apply cabling methods " found in the FETC: Electronic Security.
• "Install security, emergency or alarm equipment" covers similar competencies as found in the unit standard "Install electronic equipment" found in the FETC: Electronic Security.
• "Commission and hand-over security, emergency or alarm system" covers similar competencies as found in the unit standard "Conduct a briefing on installed systems" found in the FETC: Electronic Security.
• "Demonstrate the use of and hand over security, emergency or alarm systems" to customers covers similar competencies as found in the unit standard "Conduct a briefing on installed systems" found in the FETC: Electronic Security.

New Zealand:

The New Zealand qualifications framework has a qualification at an equivalent level to the FETC: Electronic Security. The New Zealand qualification is pitched at New Zealand NQF Level 4 and is worth 92 credits, whereas the FETC: Electronic Security consists of 128 credits. There is thus a difference in notional hours of training. The unit standards of the New Zealand qualification compare well with the FETC: Electronic Security.

National Certificate in Electronic Security (Level 4) (New Zealand).

The following unit standards form part of the New Zealand qualification and covers the same competencies outlined in certain unit standards of the FETC: Electronic Security:

• "Demonstrate knowledge of electronic security systems and equipment functions" covers similar competencies as found in the unit standard: "Determine Installation Requirements", found in the FETC: Electronic Security.

• "Design electronic security access control system" covers similar competencies as found in the elective component of the FETC: Electronic Security.
• "Design electronic security intruder alarm system" covers similar competencies as found in the elective component of the FETC: Electronic Security.
• "Commission and hand-over integrated electronic security system" covers similar competencies as found in the unit standard: "Conduct a briefing on installed systems", found in the FETC: Electronic Security.
• "Manage and/or supervise workplace operations" are covered by the Critical Cross Field Outcomes outlined in the FETC: Electronic Security.
• "Design electronic security intercom systems" covers similar competencies as found in the elective component of the FETC: Electronic Security.
• "Design electronic security CCTV systems" covers similar competencies as found in the elective component of the FETC: Electronic Security.

ARTICULATION OPTIONS
This qualification articulates horizontally with the following qualification:

• ID 57713: FETC: Specialist Security Practices NQF Level 4.

This qualification articulates vertically with the following qualification:

• ID 50122: National Certificate: Policing NQF Level 5.

MODERATION OPTIONS
• Anyone assessing a learner or moderating the assessment of a learner against this qualification must be registered as an assessor with the relevant ETQA/and any other body with whom a MOU was entered into.

• Any institution offering learning that will enable achievement of this qualification must be accredited as a provider through the relevant ETQA/and any other body with whom a MOU was entered into by SAQA.

• The relevant ETQA/and any other body with whom a MOU was entered into will oversee assessment and moderation of assessment according to the moderation guidelines in the relevant competency and the relevant ETQA/and any other body with whom a MOU was entered into procedures.

• Moderation must include both internal and external moderation of assessment at exit points of the qualification, unless ETQA policies specify otherwise. Moderation should encompass achievement of the competence described both in individual unit standards, exit level outcomes as well as the integrated competence described in the qualification.

• Anyone wishing to be assessed against this competency may apply to be assessed by any assessment agency, assessor or provider institution that is accredited by the relevant ETQA/and any other body with whom a MOU was entered into.

CRITERIA FOR THE REGISTRATION OF ASSESSORS
• The assessor must be a registered assessor with the relevant ETQA.
• The assessor must be a subject matter expert within the field of electronic security systems and equipment.
• The assessor must be competent in the outcomes of this qualification.
• The assessor must have at least 12 months experience within the field of electronic security systems and equipment.

NOTES
N/A

UNIT STANDARDS

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	244328	Apply cabling methods	Level 3	8
Core	244321	Use elementary electronics as applied to electronic systems	Level 3	4
Core	244336	Configure an installation	Level 4	7
Core	244323	Determine installation requirements	Level 4	4
Core	244326	Explain the use of installed systems	Level 4	3
Core	244333	Install electronic equipment	Level 4	12
Core	244315	Assess threat for security installation purposes	Level 5	7
Core	244331	Determine and rectify faults in an installation	Level 5	12
Elective	244337	Demonstrate an understanding of CCTV	Level 4	6
Elective	244332	Demonstrate an understanding of electric fencing	Level 4	4
Elective	244325	Demonstrate an understanding of electronic access control	Level 4	6
Elective	244322	Demonstrate an understanding of gate automation	Level 4	6
Elective	244316	Demonstrate an understanding of intruder alarm systems	Level 4	11
Elective	244320	Install Closed Circuit Television (CCTV)	Level 4	10
Elective	244318	Install a basic radio transmitter and antenna system	Level 4	4
Elective	244324	Install a gate automation system	Level 4	15
Elective	244329	Install electric fencing	Level 4	11
Elective	244314	Install electronic access control systems	Level 4	10
Fundamental	119472	Accommodate audience and context needs in oral/signed communication	Level 3	5
Fundamental	119457	Interpret and use information from texts	Level 3	5
Fundamental	119467	Use language and communication in occupational learning programmes	Level 3	5
Fundamental	119465	Write/present/sign texts for a range of communicative contexts	Level 3	5
Fundamental	9015	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	Level 4	6
Fundamental	119462	Engage in sustained oral/signed communication and evaluate spoken/signed texts	Level 4	5
Fundamental	12417	Measure, estimate & calculate physical quantities & explore, critique & prove geometrical relationships in 2 and 3 dimensional space in the life and workplace of adult with increasing responsibilities	Level 4	4
Fundamental	119469	Read/view, analyse and respond to a variety of texts	Level 4	5
Fundamental	7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	Level 4	6
Fundamental	12153	Use the writing process to compose texts required in the business environment	Level 4	5
Fundamental	119459	Write/present/sign for a wide range of contexts	Level 4	5

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Install electronic access control systems

SAQA US ID	*UNIT STANDARD TITLE*		
244314	Install electronic access control systems		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	10

SPECIFIC OUTCOME 1
Plan an access control system.

SPECIFIC OUTCOME 2
Acquire configuration information.

SPECIFIC OUTCOME 3
Installing an access control system.

SPECIFIC OUTCOME 4
Configure the system.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Assess threat for security installation purposes

SAQA US ID	*UNIT STANDARD TITLE*		
244315	Assess threat for security installation purposes		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 5	7

SPECIFIC OUTCOME 1
Demonstrate an understanding of electronic security principles.

SPECIFIC OUTCOME 2
Describe factors influencing electronic security protection.

SPECIFIC OUTCOME 3
Design electronic security protection installations.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate an understanding of intruder alarm systems

SAQA US ID	*UNIT STANDARD TITLE*		
244316	Demonstrate an understanding of intruder alarm systems		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	11

SPECIFIC OUTCOME 1
Explain theory of intruder alarm systems.

SPECIFIC OUTCOME 2
Explain the theory associated with intruder detectors.

SPECIFIC OUTCOME 3
Determine intruder alarm systems requirements.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Install a basic radio transmitter and antenna system

SAQA US ID	*UNIT STANDARD TITLE*		
244318	Install a basic radio transmitter and antenna system		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	4

SPECIFIC OUTCOME 1
Describe basic radio propagation theory.

SPECIFIC OUTCOME 2
Describe the fundamental components of a radio transmission system.

SPECIFIC OUTCOME 3
Mount, wire, configure and test a basic radio transmission system.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Install Closed Circuit Television (CCTV)

SAQA US ID	*UNIT STANDARD TITLE*		
244320	Install Closed Circuit Television (CCTV)		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	10

SPECIFIC OUTCOME 1
Verify components suitability for the application.

SPECIFIC OUTCOME 2
Mount and install CCTV components.

SPECIFIC OUTCOME 3
Use CCTV test equipment.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Use elementary electronics as applied to electronic systems

SAQA US ID	*UNIT STANDARD TITLE*		
244321	Use elementary electronics as applied to electronic systems		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 3	4

SPECIFIC OUTCOME 1
Apply elementary electrical fundamentals.

SPECIFIC OUTCOME 2
Demonstrate the application of electronic components used in electronic installations.

SPECIFIC OUTCOME 3
Use multimeters to perform measurements in electronic circuits.

SPECIFIC OUTCOME 4
Apply soldering techniques.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate an understanding of gate automation

SAQA US ID	*UNIT STANDARD TITLE*		
244322	Demonstrate an understanding of gate automation		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	6

SPECIFIC OUTCOME 1
Identify general requirements for gate automation.

SPECIFIC OUTCOME 2
Describe basic mechanical principles used in gate automation.

SPECIFIC OUTCOME 3
Explain gate automation functions.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Determine installation requirements

SAQA US ID	*UNIT STANDARD TITLE*		
244323	Determine installation requirements		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	4

SPECIFIC OUTCOME 1
Determine site requirements for an installation.

SPECIFIC OUTCOME 2
Determine equipment required for installation.

SPECIFIC OUTCOME 3
Determine resources for installation.

SPECIFIC OUTCOME 4
Confirm power requirements of the system.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Install a gate automation system

SAQA US ID	*UNIT STANDARD TITLE*		
244324	Install a gate automation system		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	15

SPECIFIC OUTCOME 1
Prepare a site for gate automation.

SPECIFIC OUTCOME 2
Install gate automation.

SPECIFIC OUTCOME 3
Test Gate Automation.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate an understanding of electronic access control

SAQA US ID	*UNIT STANDARD TITLE*		
244325	Demonstrate an understanding of electronic access control		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	6

SPECIFIC OUTCOME 1
Demonstrate an understanding of electronic access control systems.

SPECIFIC OUTCOME 2
Determine electronic access control requirements.

SPECIFIC OUTCOME 3
Describe the legislation that governs the electronic access control environment.

SPECIFIC OUTCOME 4
Demonstrate an understanding of locking systems in an electronic access control environment.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Explain the use of installed systems

SAQA US ID	*UNIT STANDARD TITLE*		
244326	Explain the use of installed systems		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	3

SPECIFIC OUTCOME 1
Assess system functionality.

SPECIFIC OUTCOME 2
Prepare and conduct a customer briefing.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Apply cabling methods

SAQA US ID	*UNIT STANDARD TITLE*		
244328	Apply cabling methods		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 3	8

SPECIFIC OUTCOME 1
Describe cable types.

SPECIFIC OUTCOME 2
Apply cable termination methods.

SPECIFIC OUTCOME 3
Secure cabling from point of origin to termination point.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Install electric fencing

SAQA US ID	*UNIT STANDARD TITLE*		
244329	Install electric fencing		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	11

SPECIFIC OUTCOME 1
Plan an electric fence installation.

SPECIFIC OUTCOME 2
Install electric fence components.

SPECIFIC OUTCOME 3
Install energiser.

SPECIFIC OUTCOME 4
Test for operation, safety and handover installation.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Determine and rectify faults in an installation

SAQA US ID	*UNIT STANDARD TITLE*		
244331	Determine and rectify faults in an installation		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 5	12

SPECIFIC OUTCOME 1
Determine the nature of the condition.

SPECIFIC OUTCOME 2
Determine causes of the condition.

SPECIFIC OUTCOME 3
Conduct checks and tests.

SPECIFIC OUTCOME 4
Rectify a faulty installation.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate an understanding of electric fencing

SAQA US ID	*UNIT STANDARD TITLE*		
244332	Demonstrate an understanding of electric fencing		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	4

SPECIFIC OUTCOME 1
Describe electric fencing insulators.

SPECIFIC OUTCOME 2
Describe electric fencing brackets.

SPECIFIC OUTCOME 3
Describe types of wire used in electric fencing.

SPECIFIC OUTCOME 4
Demonstrate knowledge of terminology used in electric fencing.

SPECIFIC OUTCOME 5
Differentiate between types of energisers.

SPECIFIC OUTCOME 6
Demonstrate knowledge of the current standard and safety regulation regarding electric fencing.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Install electronic equipment

SAQA US ID	*UNIT STANDARD TITLE*		
244333	Install electronic equipment		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	12

SPECIFIC OUTCOME 1
Prepare for electronic installation.

SPECIFIC OUTCOME 2
Verify the suitability of equipment.

SPECIFIC OUTCOME 3
Install components.

SPECIFIC OUTCOME 4
Perform an installation test.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Configure an installation

SAQA US ID	*UNIT STANDARD TITLE*		
244336	Configure an installation		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	7

SPECIFIC OUTCOME 1
Prepare for system configuration.

SPECIFIC OUTCOME 2
Perform system configuration.

SPECIFIC OUTCOME 3
Perform system configuration testing.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate an understanding of CCTV

SAQA US ID	*UNIT STANDARD TITLE*		
244337	Demonstrate an understanding of CCTV		
ORIGINATOR		*PROVIDER*	
SGB Security			
FIELD		*SUBFIELD*	
8 - Law, Military Science and Security		Safety in Society	
ABET BAND	*UNIT STANDARD TYPE*	*NQF LEVEL*	*CREDITS*
Undefined	Regular	Level 4	6

SPECIFIC OUTCOME 1
Demonstrate an understanding of the basic theory of CCTV.

SPECIFIC OUTCOME 2
Explain the functionality of the components of a CCTV system.

SPECIFIC OUTCOME 3
Explain the ethics and legal aspects pertaining to CCTV installations.