

No. 486

26 May 2006



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

Air Defence

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, subfields, NQF levels, credits, and purpose of the qualification and unit standards. The qualification and unit standards can be accessed via the SAQA web-site at www.saqqa.org.za. Copies may also be obtained from the Directorate for Standards Setting and Development at the SAQA offices, Hatfield Forum West, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the qualification and unit standards should reach SAQA at the address below and no **later than 22 June 2006**. All correspondence should be marked Standards Setting – SGB for Air Defence and addressed to

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S BHIKHA
DIRECTOR STANDARDS SETTING AND DEVELOPMENT



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION:

National Diploma: Electronic Warfare

SAQA QUAL ID	QUALIFICATION TITLE		
50500	National Diploma: Electronic Warfare		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Air Defence	8		
QUAL TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD	
National Diploma	Law, Military Science and Security	Safety in Society	
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUALIFICATION CLASS
Undefined	240	Level 5	Regular-Unit Stds Based

PURPOSE AND RATIONALE OF THE QUALIFICATION

Purpose:

This qualification is aimed at learners who work or intend to work in the electronic warfare environment as operators or in related occupational fields in the context of the sovereignty of the state and government law enforcement, and who seek recognition for essential skills in the conduct of electronic warfare operations. Electronic warfare encompasses manipulation of the electro-magnetic spectrum to take control, deny undesirable use and to exploit own use thereof for organisational purposes. Electronic warfare consists of Signal Intelligence (SIGINT), Electronic Support Measures (ESM) and Electronic Counter Measures (ECM).

This qualification will also be valuable for those who may have been practising within the electronic warfare sector, but without formal recognition. This qualification is designed to be flexible and accessible so that learners who successfully complete this qualification know about and will be able to conduct the essential operations in electronic warfare.

Learners studying towards achieving this qualification will be able to:

- > Manage people in the work environment.
- > Conduct electronic warfare operations.
- > Assess stressful situations to apply resources.
- > Analyse EW information for future application in a sovereignty of the state and government law enforcement environment.

In addition, learners will be able to perform some of the following electives according to their choice of elective specialisation:

- > Perform landward electronic warfare operations.
- > Perform airborne electronic warfare operations.
- > Perform seaborne electronic warfare operations.

Practitioners will generally carry out their role within the context of a sovereignty of the state and government law enforcement environment in times of peace and war.

Rationale:

Electronic warfare refers to the manipulation of the electro magnetic spectrum in order to fulfil a specific purpose such as to protect national assets, thereby ensuring the sovereignty of the Republic of South Africa. This qualification may be achieved in one of the electronic warfare streams - landward, airborne or seaborne. In order to meet the requirements of the workplace, the identification and recognition of competencies required by electronic warfare operators and the identification of how these relate to other

military roles is vital. There is a critical need to provide recognition to people who are able to function within the electronic warfare domain.

The majority of the learners for this qualification are likely to be working in the South African National Defence Force, with the knowledge gained in this qualification being directly applicable to the electronic warfare community of South Africa. Experienced electronic warfare operators are also in general demand in the intelligence sector, government law enforcement and defence industry.

This qualification will give learners the opportunity to build on the skills, knowledge, understanding and experience they have to earn a formal qualification in electronic warfare. Learners will be able to work in a high stress situation and apply integrity, assertiveness and self-discipline to their daily lives. Professional conduct is also embedded in this qualification and will enhance the general image of the security forces in South Africa.

RECOGNIZE PREVIOUS LEARNING?

Y

LEARNING ASSUMED TO BE IN PLACE

- > Communication at NQF level 4.
- > Mathematics at NQF level 4.
- > Computer Literacy at NQF level 3.
- > Interpret a topographical map for navigational purposes NQF level 4
- > Perform counter insurgency operations at NQF level 4.

Recognition of Previous Learning:

This qualification can be achieved wholly or in part through recognition of prior learning in terms of the defined exit level outcomes and/or individual unit standards.

Evidence can be presented in various ways, including international and/or previous local qualifications, products, reports, testimonials mentioning functions performed, work records, portfolios, videos of practice and performance records.

All such evidence will be judged in accordance with the general principles of assessment and the requirements for integrated assessment.

Access to the qualification:

Learners for this qualification need to communicate effectively. Auditory skills will also limit access to the qualification in certain instances. Clear vision is also a requirement for achieving many of the outcomes of this qualification, and colour blindness or poor vision may hinder applicants from successfully completing this qualification. Physical fitness is required to perform many outcomes and a physically challenged person may not be able to achieve this qualification.

QUALIFICATION RULES

Fundamental:

Learners must achieve all **40** fundamental credits.

Core:

Learners must achieve all 98 core credits.

Elective Specialisation:

Learners must achieve at least **102** credits of their choice from any of the available elective credits in either one of the specialisation streams (landward, airborne and seaborne) or from the generic elective component. Elective streams of additional unit standards will be added to this qualification once they have been developed.

Airborne electronic warfare elective stream unit standards:

- > Manage short range communication specific to aircraft.
- > Demonstrate the use of short-range communication specific to aircraft.
- > Demonstrate understanding of human performance and limitations in aviation.

- > Demonstrate understanding of South African Aviation law, International Civil Aviation Organization rules and procedures for small commercial aeroplane operations.
- > Interpret meteorology for aviation.
- > Demonstrate understanding of the principles of flight.
- > Demonstrate knowledge of airpower.
- > Apply survival techniques for aircrew members.
- > Describe small aeroplane components and emergency equipment.
- > Demonstrate an understanding of the principles of operation and use of radio aids in air navigation.
- > Demonstrate an understanding of aircraft instrumentation.
- > Demonstrate understanding of the principles of navigating an aircraft.
- > Conduct an Electronic Counter Measures (ECM) operation.

EXIT LEVEL OUTCOMES

1. Manage people in the work environment.
2. Conduct electronic warfare operations.
3. Assess stressful situations to apply resources.
4. Analyse **EW** information for future application in a sovereignty of the state and government law enforcement environment.

Elective Exit Level Outcomes:

5. Perform airborne electronic warfare operations.

This qualification allows for further elective exit level outcomes once the unit standards have been developed and linked to this qualification by the landward or seaborne electronic warfare specialists.

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

- > The ability of the learner to identify and solve problems through identifying the correct transmissions to interpret.
- > The ability of the learner to work effectively with others as a member of a team, group organisation or community is demonstrated through participating in and providing input for the entire EW operation.
- > The ability of the learner to organise and manage him/her self responsibly and effectively is demonstrated through adhering to operational requirements for the entire EW operation.
- > The ability of the learner to collect, analyse, organise and critically evaluate information is demonstrated through categorising data according to operational requirements.
- > The ability of the learner to communicate effectively in the modes of oral and/or written presentation is demonstrated through disseminating data and communicating with colleagues.
- > The ability of the learner to use science and technology effectively and critically, showing responsibility towards the environment and the health of others is demonstrated through operation of SIGINT and **ESM** systems.
- > The ability of the learner to demonstrate an understanding of the world as a set of related systems is demonstrated through describing the consequences of poor performance.
- > The ability of the learner to contribute to own full personal development is demonstrated through working autonomously under stressful conditions.

ASSOCIATED ASSESSMENT CRITERIA

1.
 - > The ability to communicate within an organisation is demonstrated in terms of personnel management.
 - > Individual skills and competencies of personnel are analysed in accordance with organisational prescripts.
 - > Training needs of personnel are evaluated in accordance with organisational requirements.
 - > Timeframes are set and adhered to in terms of achieving agreed results.
2.
 - > Preparation ensures the optimal functioning of electronic warfare operations.
 - > The site selected for electronic warfare operations is appropriate for the type of operation.
 - > Electronic warfare operations are conducted in accordance with operational requirements.
 - > Electronic warfare data is analysed to determine the implications on an operation.
 - > Electronic emission theory is analysed in terms of the manner in which it is interpreted.

> **Electronic warfare** systems are deployed in accordance with operational requirements.

3.

- > The extent of stress in given situations is identified in order to determine the impact on the operation.
- > Stressful situations are handled in a manner that maximises the required operational results.
- > Resources are applied to enable the resolution of a situation.

4.

- > Electronic emissions of operational forces are exploited to gather relevant information.
- > Changes in the electro-magnetic battle space are identified and actions taken are relevant to the situation.
- > **Analysed** information is used to develop counter measures.

5. Elective ELO:

- > Short range communication between aircraft is managed in accordance with SANDF protocols.
- > Current legislation pertaining to aircraft is explained in relation to the effect on EW operations.
- > Aircraft instrumentation is explained in terms of its purpose and advantages in relation to EW operations.
- > Principles of navigating an aircraft are explained in relation to EW operations.
- > Topography is described in terms of the impact on EW operations.
- > Airborne specific EW systems are operated in accordance with operational requirements.

Integrated Assessment:

Assessment should be carried out at regular intervals as well as at the end of the periods of study and should **be** assessed in an integrated way. It is envisaged that learners will work at more than one unit standard at a time.

The achievement of applied competence of this qualification will be demonstrated if learners are able to apply electronic warfare techniques in their respective streams for the effective planning of joint, combined and multi-national operations through the gathering and dissemination of electronic warfare data.

Learners must demonstrate the ability to engage in the operations selected in an integrative way, dealing with divergent and "random" demands related to these work operations under stressful situations. Evidence is required that the learner is able to achieve the purpose of the qualification as a whole at the time of the award of the qualification. Integration of skills will be demonstrated through the achievement of the core operational standards.

Assessors should note that evidence of integration could well be presented by learner when being assessed against the individual unit standards. Thus, there should not necessarily be separate assessments for each unit standard and then further assessment for integration. Well-designed assessments should make it possible to gain evidence against each unit standard while at the same time gaining evidence of integration.

INTERNATIONAL COMPARABILITY

Due to the sensitive nature of the electronic warfare environment it was difficult to compare the content (unit standards) of this qualification to that of other countries. The comparisons found that no other countries have qualifications directed towards electronic warfare, **so** the task team considered the skills and knowledge taught to electronic warfare operators as the basis for this comparison. The following countries were selected as follows:

United States of America:

The United States of America (USA) was chosen for international comparability as they are currently the **world** leaders in terms of Signal Intelligence and Electronic Warfare. The US military conducts Information Operations and divides Information Operations into two categories namely, Information-in-Warfare (IIW) and Information Warfare (IW).

IIW is an intelligence function that conducts information collection activities. It includes Intelligence, Surveillance and Reconnaissance. Intelligence is further subdivided into various disciplines including Signal Intelligence (SIGINT). SIGINT is further divided into Communication Intelligence (COMINT), Electronic Intelligence (ELINT) and Foreign Instrumentation Signals Intelligence (FISINT).

IW is an operational function that conducts offensive and defensive information operations. It includes EW that is further subdivided into Electronic Warfare Support (ES) / Electronic Support Measures (ESM), Electronic Attack (EA) / Electronic Counter Measures (ECM) and Electronic Protection (EP) / Electronic Counter-Counter Measures (**ECCM**).

It was identified that EW Operators in the US Air Force, Marine and Navy hold similar posts to that of South Africa. It was noted that in the USA members specialise in one function only such as ground based Communication Intelligence. In the SA Air Force Signal intelligence/ Electronic Warfare Operators/ Officers operate in all the various different functions of Signal Intelligence as well as Electronic Warfare.

The US Air Force does not specify the duration of experience required, but applicants must have experience as Aircraft EW Specialist. This experience must have been in an active duty or Reserve status in a flying component of the US military establishment within the past 36 months. The US and Marine corps also have specific employment entry requirements, but these are not pertinent to the qualification, only to employment in a post.

United Kingdom:

The United Kingdom (UK) was chosen for international comparability as they are currently the next world leader in terms of Signal Intelligence and Electronic Warfare. In the Royal Air Force, enlisted members specialise in only one function of Signal Intelligence, similar to the USA. Enlisted and commissioned aircrew members perform Electronic Warfare functions but again only specialising in one of different functions. The post profiles of the various functions are very similar to that of the SA Air Force, but entry requirements to a post are based on employment criteria rather than on qualifications achieved.

Australia:

Australia was chosen for international comparability as they have an outcomes-based system of education and training similar to that of South Africa. The Royal Australian Air Force employs Airborne Electronic Analysts (AEA) that performs both Signal Intelligence and Electronic Warfare tasks. These tasks are identical to those of SA Air Force Signal Intelligence and Electronic Warfare operators, but with added maritime tasks as Australia has no land neighbours and is surrounded by ocean.

Australia has specific employment entry requirements for learners applying to become an AEA, but these are not pertinent to the qualification, only to employment in a post.

New Zealand:

New Zealand was chosen for international comparability as they have an outcomes-based system of education and training similar to that of South Africa. The Royal New Zealand Air Force employs Air Electronics Operators (AEO) that performs both Signal Intelligence and Electronic Warfare tasks. The tasks are also the same as that of SA Air Force Signal Intelligence and Electronic Warfare operators but with added maritime tasks as New Zealand has no land neighbours and is surrounded by ocean.

New Zealand has specific employment entry requirements for learners applying to become an AEO, but these are not pertinent to the qualification, only to employment in a post.

ARTICULATION OPTIONS

This qualification has been designed and structured so that qualifying learners can be recognised as an electronic warfare operator. The qualification acts as a springboard from which learners may progress to qualifications in image interpretation, information warfare, counter intelligence, defence intelligence, intelligence collection and defence intelligence analysts.

Learners can move horizontally or vertically between electronic warfare related qualifications, although in most cases, certain standards will be required horizontally before moving to another qualification vertically.

This qualification articulates horizontally with the following qualifications:

This qualification articulates horizontally with the following qualifications:

- > National Certificate: Statutory Intelligence Practice (level 5). 48667
- > National Diploma: Applied Military Intelligence (level 5). 49852
- > National Certificate: Navigation (level 5). 49950

This qualification articulates vertically with the following qualifications.

- > National Diploma in Statutory Intelligence: Counter Intelligence (level 6). 49100
- > National Diploma in Statutory Intelligence Practice: Analysis (level 6). 49102
- > National Diploma in Statutory Intelligence: Collection (level 6). 49104
- > National Diploma: Joint and Multi National Operations (level 6). 49783

MODERATION OPTIONS

- > An individual wishing to be assessed (including through RPL) against this qualification or any of its associated Unit Standards may apply to an assessment agency, assessor or provider institution accredited by the relevant ETQA, or an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- > Anyone assessing a learner against this qualification or any of its associated Unit Standards must be registered as an assessor with the relevant ETQA or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- > Any institution offering learning that will enable achievement of this qualification or any of its associated Unit Standards must be accredited as a provider with the relevant ETQA or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- > Moderation of assessment will be conducted by the relevant ETQA at its discretion.

CRITERIA FOR THE REGISTRATION OF ASSESSORS

Assessors registered with the relevant ETQA must carry out the assessment of learners for any of the unit standards that make up this qualification. However, the following criteria are specified for assessors who assess integration of this qualification:

- > Be competent in the outcomes of this qualification.
- > Have a minimum of 3 years working knowledge in the electronic warfare environment.

NOTES

The elective unit standard category is open-ended to allow the learner to choose the elective specialization credits associated to the elective unit standards from any discipline that would add value to the purpose of the qualification or the learner's own development on a learning pathway. The learner may choose any of the elective specialisation areas, but the unit standards within that area may be determined by organisational requirements.

UNIT STANDARDS

(Note: A blank space after this line means that the qualification is not based on Unit Standards.)

	UNIT STANDARD ID AND TITLE	LEVEL	CREDITS	STATUS
Core	114507 Understand, identify, and plan the exploitation of operational resources to collect information	Level 5	35	Registered
Core	120057 Demonstrate knowledge of electronic emission theory	Level 5	12	Registered
Core	120487 Use firearms in a military and law enforcement environment	Level 5	12	Registered
Core	123531 Analyse Signal Intelligence (SIGINT) and Electronic Support Measures (ESM) data	Level 5	6	Draft - Prep for P Comment
Core	123532 Evaluate a site for military surveillance and communications systems	Level 5	6	Draft - Prep for P Comment
Core	123533 Prepare a Signal Intelligence (SIGINT) and Electronic Support Measures (ESM) operation	Level 5	12	Draft - Prep for P Comment
Core	123534 Conduct a Signal Intelligence (SIGINT) and Electronic Support Measures (ESM) operation	Level 5	15	Draft - Prep for P Comment
Elective	11504 Give security orders and instructions	Level 4	15	Reregistered
Elective	114589 Manage time productively	Level 4	4	Registered
Elective	115468 Interpret a topographical map for navigational purposes	Level 4	2	Registered
Elective	120155 Apply survival techniques for aircrew members	Level 4	12	Registered
Elective	10146 Supervise a project team of a developmental project to deliver project objectives	Level 5	14	Reregistered
Elective	15234 Apply efficient time management to the work of a department/division/section	Level 5	4	Reregistered
Elective	114506 Apply intelligence analysis tradecraft	Level 5	35	Registered
Elective	115461 Survive emergency situations making use of natural resources for survival	Level 5	30	Registered
Elective	115753 Conduct outcomes-based assessment	Level 5	15	Registered
Elective	118027 Demonstrate an understanding of the planning process at the operational level	Level 5	13	Registered
Elective	120040 Demonstrate understanding of the concepts of operational command and control	Level 5	2	Registered
Elective	120041 Demonstrate understanding of the principles of flight	Level 5	6	Registered
Elective	120042 Interpret meteorology for aviation	Level 5	7	Registered
Elective	120044 Demonstrate knowledge of Airpower	Level 5	5	Registered

Elective	120045	Demonstrate understanding of aircraft instrumentation	Level 5	6	Registered
Elective	120047	Demonstrate understanding of human performance and limitations in aviation	Level 5	5	Registered
Elective	120052	Manage short range communication specific to aircraft	Level 5	3	Registered
Elective	120058	Demonstrate understanding of the principles of navigating an aircraft	Level 5	7	Registered
Elective	120059	Demonstrate an understanding of the principles of operation and use of radio aids in air navigation	Level 5	8	Registered
Elective	120150	Demonstrate the use of short-range communications specific to aircraft	Level 5	3	Registered
Elective	120152	Describe small aeroplane components and emergency equipment	Level 5	9	Registered
Elective	120156	Demonstrate understanding of South African Aviation law, International Civil Aviation Organization rules and procedures for small commercial aeroplane operations	Level 5	10	Registered
Elective	120161	Conduct pre and post flight procedures and administration for flights	Level 5	4	Registered
Elective	120492	Demonstrate the application of performance management	Level 5	6	Registered
Elective	123530	Conduct an Electronic Counter Measures (ECM) operation	Level 5	9	Draft - Prep for P Comment
Elective	7881	Manage workplace diversity	Level 6	5	Reregistered
Fundamental	7876	Conduct on-the-job training	Level 5	8	Reregistered
Fundamental	10055	Present data to stakeholders	Level 5	5	Reregistered
Fundamental	12433	Use communication techniques effectively	Level 5	8	Registered
Fundamental	15096	Demonstrate an understanding of stress in order to apply strategies to achieve optimal stress levels in personal and work situations	Level 5	5	Registered
Fundamental	15224	Empower team members through recognising strengths, encouraging participation in decision making and delegating tasks	Level 5	4	Reregistered
Fundamental	117985	Demonstrate an understanding of the Law of Armed Conflict during multi-national operations	Level 5	10	Registered



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UNIT STANDARD:

SAQA US ID	UNIT STANDARD TITLE		
123530	Conduct an Electronic Counter Measures (ECM) operation		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Air Defence	8		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Law, Military Science and Security	Sovereignty of the State	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	9	Level 5	Regular

SPECIFIC OUTCOME 1

Deploy an ECM system.

SPECIFIC OUTCOME 2

Evaluate emission parameters to be jammed.

SPECIFIC OUTCOME 3

Jam emission parameters.



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<i>SAQA US ID</i>	<i>UNIT STANDARD TITLE</i>		
123531	Analyse Signal Intelligence (SIGINT) and Electronic Support Measures (ESM) data		
<i>SGB NAME</i>	<i>ORGANISING FIELD ID</i>	<i>PROVIDER NAME</i>	
SGB Air Defence	8		
<i>UNIT STANDARD TYPE</i>	<i>ORGANISING FIELD DESCRIPTION</i>	<i>SUBFIELD DESCRIPTION</i>	
Regular	Law, Military Science and Security	Sovereignty of the State	
<i>ABET BAND</i>	<i>CREDITS</i>	<i>NQF LEVEL</i>	<i>UNIT STANDARD TYPE</i>
Undefined	6	Level 5	Regular

SPECIFIC OUTCOME 1

Evaluate data.

SPECIFIC OUTCOME 2

Integrate data into a database.

SPECIFIC OUTCOME 3

Evaluate integrated data.



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UNIT STANDARD:

Evaluate a site for military surveillance and communications systems

<i>SAQA US ID</i>	<i>UNIT STANDARD TITLE</i>		
123532	Evaluate a site for military surveillance and communications systems		
<i>SGB NAME</i>		<i>ORGANISING FIELD ID</i>	<i>PROVIDER NAME</i>
SGB Air Defence		a	
<i>UNIT STANDARD TYPE</i>		<i>ORGANISING FIELD DESCRIPTION</i>	<i>SUBFIELD DESCRIPTION</i>
Regular		Law, Military Science and Security	Sovereignty of the State
<i>ABET BAND</i>	<i>CREDITS</i>	<i>NQF LEVEL</i>	<i>UNIT STANDARD TYPE</i>
Undefined	6	Level 5	Regular

SPECIFIC OUTCOME 1

Evaluate the area of surveillance and communications operations.

SPECIFIC OUTCOME 2

Evaluate potential deployment positions.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

<i>SAQA US ID</i>	<i>UNIT STANDARD TITLE</i>		
123533	Prepare a Signal Intelligence (SIGINT) and Electronic Support Measures (ESM) operation		
<i>SGB NAME</i>		<i>ORGANISING FIELD ID</i>	<i>PROVIDER NAME</i>
SGB Air Defence		8	
<i>UNIT STANDARD TYPE</i>		<i>ORGANISING FIELD DESCRIPTION</i>	<i>SUBFIELD DESCRIPTION</i>
Regular		Law, Military Science and Security	Sovereignty of the State
<i>ABET BAND</i>	<i>CREDITS</i>	<i>NQF LEVEL</i>	<i>UNIT STANDARD TYPE</i>
Undefined	12	Level 5	Regular

SPECIFIC OUTCOME 1

Plan a SIGINT and ESM operation in a structured scenario.

SPECIFIC OUTCOME 2

Deploy a SIGINT and ESM system in a structured scenario.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Conduct a Signal Intelligence (SIGINT) and Electronic Support Measures (ESM) operation

SAQA US ID	UNIT STANDARD TITLE		
123534	Conduct a Signal Intelligence (SIGINT) and Electronic Support Measures (ESM) operation		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Air Defence	8		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Law, Military Science and Security	Sovereignty of the State	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	15	level 5	Regular

SPECIFIC OUTCOME 1

Intercept transmissions.

SPECIFIC OUTCOME 2

Identify transmissions.

SPECIFIC OUTCOME 3

Evaluate emission parameters and content.

SPECIFIC OUTCOME 4

Disseminate intercepts.