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GOVERNMENT NOTICES

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

No. 650

28 May 2004



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

Audio-Visual Media Production

Registered by NSB 04, Communication Studies and Language, publishes the following qualifications and unit standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the qualifications and unit standards. The qualifications 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, Hatfield Forum West, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the unit standards should reach SAQA at the address ***below and no later than 21 June 2004***. All correspondence should be marked **Standards Setting – SGB for Audio-Visual media Production** and addressed to

The Director: Standards Setting and Development
SAQA
Attention: Mr. D Mphuthing
Postnet Suite 248
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JOE SAMUELS
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SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION:

Certificate: Broadcast Engineering

SAQA QUAL ID	QUALIFICATION TITLE	
48792	Certificate: Broadcast Engineering	
SGB NAME	SGB Audio-visual Media Production	
ABET BAND	PROVIDER NAME	
Undefined		
QUALIFICATION CODE	QUAL TYPE	SUBFIELD
COM-5-National Certificate	National Certificate	Communication Studies
MINIMUM CREDITS	NQF LEVEL	QUALIFICATION CLASS
120	Level 5	Regular-Unit Stds Based
SAQA DECISION NUMBER	REGISTRATION START DATE	REGISTRATION END DATE

PURPOSE OF THE QUALIFICATION

The purpose of this Qualification is to build competencies required by learners in broadcast engineering to enable them to work as technicians in the broadcast industry. The acquisition of knowledge and skills will empower learners to respond to challenges in the broadcasting environment and the changing world of work where the Broadcast Technician is an important extension of the Engineering field. The learners will also acquire the attitudes and values required to operate confidently as individuals in the South African community.

This Qualification provides learners with not only a broad knowledge base and a critical understanding of terms, rules, concepts, principles and theories of Broadcast Engineering that will enable learners to be informed workers, but also develops specific competencies in the following streams: Radio, Television, Broadcast Contribution, Broadcast Head-end Systems, Broadcast Distribution or Broadcast Spectrum Management. Qualifying learners are able to use methods in Broadcast Engineering to install, set-up, operate, fault find, maintain and repair broadcasting equipment in one of the above mentioned disciplines. The qualification credits a learning experience that allows flexible access to life-long learning, higher education and employment in Broadcast Engineering as a career path.

Rationale of the qualification

The Certificate for Broadcast Engineering: Level 5 will bridge the gap between the National Diploma: Engineering: Electrical and the National Diploma: Engineering: Computer Systems and the BTech: Engineering: Electrical (interim registered qualifications). It reflects the workplace-based needs of the broadcasting industry. This qualification prepares learners that have achieved an academic qualification to pursue diverse careers in the broadcasting industry, namely, Television, Radio, Broadcast Contribution, Broadcast Head-end systems, Broadcast Distribution and Broadcast Spectrum Management.

The broadcasting sector recognises the need for learners to have a thorough understanding of all the principles involved in broadcasting in order to cope with the rapidly changing world of science and technology. The convergence of broadcast technologies requires from learners the acquisition of knowledge and skills in a variety of disciplines, and will enable them to continue on a path of life-long learning. The attainment of the qualification constitutes a step toward being registered as a Professional Technician with the Engineering Council of South Africa.

The Certificate in Broadcast Engineering NQF Level 5 should produce knowledgeable, multi-skilled workers who are able to enhance productivity and efficiency in the broadcast environment in the country. It should

provide the means for current workers to receive recognition of prior learning, to upgrade their competence and achieve a nationally recognised Qualification. It should also assist newcomers to the broadcasting environment to pursue a career in Broadcast Engineering. The Qualification is structured in such a way that it exposes learners to different aspects of Broadcast Engineering so that there is scope for multi-skilling.

RECOGNIZE PREVIOUS LEARNING?

Y

LEARNING ASSUMED TO BE IN PLACE

The credits and design of this qualification assumes that the following competencies have already been attained:

- > Communications and language skills at NQF Level 4
- > Mathematics and Science at NQF Level 4
- > End user computing skills
- > Wiring Techniques
- > Soldering techniques
- > Use and care of hand and power tools
- > Install new computer hardware and software packages

Recognition of prior learning

This qualification may be achieved in part or completely through the recognition of prior learning, which includes formal, informal and non-formal learning and work experience and must adhere to the policies and procedures specified by the SETA/ETQA.

RPL process is critical, as many people have worked for years in the Broadcast field without a formal qualification.

Evidence can be presented in a variety of forms, including international or previous local qualifications, reports, testimonials mentioning functions performed, work records, portfolios, videos of practice and performance records.

All such evidence should be judged according to the general principles described in the note to assessors in section above, Assessors and Moderators.

QUALIFICATION RULES

Fundamental Component

There are no prescribed Unit Standards for a NQF Level 5 Qualification. The purpose of the fundamental unit standards is to develop the learner skills in computer network systems, project management, health and safety regulations, effective working relationships and day-to-day technical administration, all of which are necessary to enable the learner to develop further in the Broadcast industry. All fundamental unit standards are compulsory.

Core Component

The unit standards for the core are focused on the various streams. Learners select the unit standards in a particular broadcast stream as indicated in the unit standard matrix. This provides an opportunity for learners who have already gained this qualification in one stream to move across the streams for multi-skilling purposes, completing only the particular stream's core unit standards to be able to work within that field, since the fundamentals apply across all streams: Radio, Television, Broadcast Contribution, Broadcast Distribution, Broadcast Head-end Systems and Spectrum Management industries. All core unit standards per stream are compulsory.

Elective Component

The unit standards will enable the learner to gain knowledge and skills in entrepreneurship and basic business skills and/or the learner can select from the core unit standards of other broadcast streams to make-up the required number of credits.

This Qualification is made up of planned combination of learning outcomes that have a defined purpose and

will provide qualifying learners with applied competence and a basis for further learning.
In this Qualification the minimum credits are allocated as follows:

Radio or Television Fundamentals: 38
Radio or Television Core: 66
Radio or Television Elective: 16

Broadcast Contribution Fundamentals: 38
Broadcast Contribution Core: 59
Broadcast Contribution Elective: 23

Broadcast Distribution Fundamentals: 38
Broadcast Distribution Core: 61
Broadcast Distribution Elective: 21

Broadcast Head-end Systems Fundamentals: 38
Broadcast Head-end Systems Core: 66
Broadcast Head-end Systems Elective: 16

Spectrum Management Fundamentals: 38
Spectrum Management Core: 54
Spectrum Management Elective: 28

Spread of Unit Standard credits across NQF levels in Fundamental, Core and Elective components:

Fundamentals Level 4: 4
Fundamentals Level 5: 34
Fundamentals TOTAL: 38

Core Level 5: 272
Core Level 6: 34
Core TOTAL: 306

Elective Level 3: 9
Elective Level 4: 38
Elective TOTAL: 47

TOTAL Level 3: 9
TOTAL Level 4: 42
TOTAL Level 5: 306
TOTAL Level 6: 34

The Unit Standards making up this Qualification are intended as building blocks for the further development of skills that will make the learner a more fulfilled, informed, efficient and cost effective worker. This Qualification will enhance the productivity and employability of the learner within the Broadcasting and Information and Communication Technologies sector as well as contribute to the quality, production rate and growth of the individual and the industry.

EXIT LEVEL OUTCOMES

1. Apply the essential methods, processes and techniques to install broadcast equipment and manage the work according to a plan.
2. Conduct complex broadcast measurements, analyse information and draw conclusions, using a range of devices and applying it in a variety of contexts.
3. Operate complex broadcast equipment to support clients and test equipment performance.
4. Diagnose, analyse and solve diverse broadcast engineering problems creatively and innovatively using appropriate techniques.

5. Apply the essential methods, processes and techniques to maintain, fault-find and repair broadcast equipment.

6. Work with and support colleagues and clients using effective communication techniques.

Critical Cross-field Outcomes

The learners are able to:

> Identify and solve problems within own area of responsibility and make decisions promptly and effectively using critical and creative thinking to take remedial action.

> Work effectively with clients, colleagues, as a member of a team, group, organisation or community to achieve the required end-result. This could include effective negotiation with others to schedule maintenance around important events or to communicate to local authorities when doing field strength measurements.

> Organise and manage themselves in the work areas and their activities effectively and responsibly to plan installation activities, prepare equipment, materials and tools for selected tasks or to complete tasks within deadlines.

> Collect, organise and analyse broadcast engineering information which is used to critically evaluate the results and possible solutions and the effect of decisions made during maintenance, repair and keeping broadcast on-air.

> Communicate technical information effectively, both orally and in writing, using appropriate language, structure, style and graphic support

> Use science and technology extensively and effectively when working with broadcast equipment and critically showing responsibility towards the environment, which could include work areas and installation venues, and health and safety of all involved

> Demonstrate an understanding that the engineering world is a set of related systems and that problem solving does not exist in isolation in that learners are expected to comprehend that their actions have implications for the team, company, the industry as a whole and the community at large.

ASSOCIATED ASSESSMENT CRITERIA

1.

- > Actions planned and implemented are appropriate to promoting best practice in organisations
- > Drawings and specifications relevant to the installation are interpreted and verified for correct understanding of the installation requirements
- > Installations are done in accordance with organizational policies and procedures, client and legal requirements
- > Work performed is completed within agreed timescales
- > The installation methods used adhere to safety standards

2.

- > Test/measurement equipment used is in accordance with their design
- > Tools and techniques used are appropriate to the required task
- > Tests validate satisfactory performance of complicated system / equipment against manufacturer's data/specifications, company specific performance criteria and relevant industry standards
- > Test information gathered is analysed, conclusions drawn and actions proposed

3.

- > Best practices or procedure are applied when operating the broadcast equipment
- > Optimal performance is achieved when operating broadcast equipment
- > Operational support to the client is appropriate for the situation and promotes productivity
- > Safety procedures are adhered to when equipment is used

4.

- > Fault diagnoses is carried out systematically using the most appropriate diagnostic techniques
- > Diagnosed problems and faults are interpreted accurately and quickly, and possible approaches to solutions formulated
- > Solutions are practical, effective, meet technical requirements and clients needs

5.

- > Maintenance and repairs are done in accordance with organizational policies and procedures
- > Tests validate satisfactory performance of system / equipment against manufacturer's data/specifications, company specific performance criteria and relevant industry standards
- > Diagnosed problems and faults are interpreted accurately and quickly
- > Settings and adjustments to equipment ensure optimal functioning
- > Equipment is repaired (replaced) within an agreed timescale, using appropriate tools and techniques
- > Health and safety precautions are adhered to and are in accordance with relevant legislation

6.

- > Feedback to clients is prompt and clear
- > All requirements of projects are determined and verified with clients
- > Recommendations are proposed clearly to client or end-user in accordance with organisational requirements

Integrated Assessment

The applied competence (foundational, practical and reflective competencies) of this qualification will be achieved if a learner is competent in terms of all of the unit standards. Identification and solving of known problems, team-work, self organisation and the processing of data must be assessed. This assessment can take place using any combination of practical, foundational and reflective competency assessment methods and tools to determine the development of the whole person and the integration of applied knowledge and skills. Competence will be assessed when conducting formative and summative assessment in the context of the broadcasting environment.

Formative assessment

The assessment criteria for formative assessment are described in the various unit standards. Formative assessment takes place during the process of learning and assessors should use a range of assessment methods and tools that support each other to assess total competence.

The assessment method and or tools used by the assessor must conform to the following criteria:

- > It must be fair in the sense that it does not hinder or advantage the learner.
- > It must be valid in the sense that it measures the critical components of learning.
- > It must be reliable in the sense that it is consistent and delivers the same output across a range of learners.
- > It must be practical in the sense that it takes into account the available financial resources, facilities, equipment and time.

Summative assessment

Summative assessment is carried out at the end of the learning programme to assess the acquired competencies of the learner.

Assessment

Assessment practices must be fair, transparent, valid and reliable and should ensure that no learner is disadvantaged.

The focus of the assessment must be on the assessment of the learning outcomes rather than learning outputs. The Specific Outcomes guide the learning and training process towards the outcomes on a

continuous basis. The purpose is to determine whether the outcomes have been attained. Situations should present a wide range of options. Applications should require significant choices from a wide range of procedures and in a number of contexts.

- > Learning, teaching and assessment are inextricably linked. Where appropriate, assessment of knowledge, skills, attitudes and values indicated in the various Standards should be integrated.
- > Assessment has a formative monitoring function. Formative assessment should be used to assess gaps in the learner's skill and knowledge and to indicate where there is a need for expanded opportunities. The goal is to promote learning and to assess the effectiveness of the teaching and learning process. Feedback from assessment informs teaching and learning and allows for the critique of outcomes, methodology and materials. Formative assessment is diagnostic and as such, it should guide the learner and the trainer. It is continuous and is used to plan appropriate learning experiences to meet the learner's need. It provides information about problems experienced at different stages in the learning process. As it is criterion referenced, if the learner has met the assessment criteria, s/he has achieved the outcome.
- > Assessment should also have a summative component. Summative assessment may be used on completion of a Standard, but should not be the only form of assessment. A summative assessment of the exit outcomes is required on completion of all the necessary Standards and before a Qualification is awarded.
- > A variety of methods must be used in assessment and tools and activities must be appropriate to the context in which the learner is working. Assessment should take place in an authentic context as far as possible. Where it is not possible to assess competence in the workplace, simulations, case studies and other similar techniques should be used to provide a context appropriate to the assessment.
- > Integration implies that theoretical and practical components should, where possible, be assessed together.
- > Integrative techniques should be used to assess applied competence. Learners should be required to demonstrate that they can perform the outcomes with understanding and insight.
- > Assessment should ensure that all Specific Outcomes, Embedded Knowledge and Critical Cross-Field Outcomes are evaluated. Assessment of the Critical Cross-Field Outcomes should be integrated with the assessment of the Specific Outcomes. The Critical Cross-Field Outcomes are implicit in some Standards and programmes should be designed to extend and further reflect the integration.

INTERNATIONAL COMPARABILITY

The SGB for Audio Visual Production could not locate an international qualification that encompasses all the outcomes identified by the National Association of Broadcasters in South Africa.

The United Kingdom has a qualification called Broadcast Engineer Level 3, approximately at our NQF Level 5-6, which mandatory units and some of their optional units are all the Core unit standards for this Qualification.

Australia has a Diploma in Broadcast Engineering and an Advanced Diploma in Broadcast Engineering, no indication of the level though. Some of their relevant unit standards were used for benchmarking.

The New Zealand Qualifications Authority has an Endorsed Technicians Certificate :Electrical, Electronic and Telecommunications with only one subject that is closely related, namely television. No comparison could be made for there is too little information available.

ARTICULATION OPTIONS

This qualification articulates vertically with the Bachelors Degree in Engineering: Electrical.

Exit points for learners who do not complete the Qualification:

- > Learners will be credited with Unit Standards in which they have proved

competence

> Learners who complete individual Unit Standards, but do not complete the Qualification retain their credits.

However, should the substance of the Unit Standards change, the validity of the credit towards the Qualification may be reviewed.

> Learners who change their provider or learning site before completing the Qualification may transfer their credits to the new learning site.

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 or a relevant accredited ETQA that has a Memorandum of Understanding with the relevant SETA.

> Any institution offering learning that will enable the achievement of this qualification must be accredited as a provider with the relevant ETQA or a relevant accredited ETQA that has a Memorandum of Understanding with the relevant SETA.

> Assessment and moderation of assessment will be overseen by the relevant ETQA, or a relevant accredited ETQA that has a Memorandum of Understanding with the relevant SETA, according to the ETQAs policies and guidelines for assessment and moderation; in terms of agreements reached around assessment and moderation between ETQAs (including professional bodies); and in terms of the moderation guideline detailed immediately below.

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

Anyone wishing to be assessed against this qualification may apply to be assessed by any assessment agency, assessor or provider institution that is accredited by the relevant ETQA or a relevant accredited ETQA that has a Memorandum of Understanding with the relevant SETA.

CRITERIA FOR THE REGISTRATION OF ASSESSORS

The Qualification will be internally assessed by the provider and moderated by a moderator registered as an assessor by the relevant ETQA. The mechanisms and requirements for moderation are contained in the document obtainable from the relevant ETQA.

> Assessors must be registered with the relevant ETQA.

> Moderators, competent at the level of the Qualification must be registered by the relevant SETA ETQA or a relevant accredited ETQA to ensure that the standard across assessors is consistent

> Moderators are required to be competent in assessment practices

> Moderators are required to report to the relevant ETQA or a relevant accredited ETQA in the required format

> Institutions and providers offering learning that will lead to the achievement of the Higher Certificate in Broadcast Engineering: Level 5 must be accredited as providers with the relevant ETQA or with a relevant accredited ETQA that has a Memorandum of Understanding with the relevant SETA

> The relevant ETQA will monitor and quality assure moderation and assessment according to the guidelines of the relevant SETA

> The relevant ETQA will assure the quality of all learning programmes in collaboration with other SETAs in different economic sectors.

NOTES

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	115025 Monitor, diagnose and repair service levels for conditional access pay television encryption systems	Level 5	15	Draft - Prep for P Comment
Core	115027 Understand the operational principles and circuit theory of satellite and digital television decoders	Level 5	4	Draft - Prep for P Comment
Core	115028 Calculate interferences for broadcast frequencies	Level 5	10	Draft - Prep for P Comment
Core	115029 Measure, analyse and report on broadcast field strengths	Level 5	10	Draft - Prep for P Comment
Core	115030 Set-up and operate portable microwave links	Level 5	20	Draft - Prep for P Comment
Core	115032 Predict broadcast signal coverage	Level 5	15	Draft - Prep for P Comment
Core	115033 Perform routing and switching in a broadcast environment	Level 5	9	Draft - Prep for P Comment
Core	115034 Modify an International Telecommunication Union (ITU) assignment plan	Level 5	4	Draft - Prep for P Comment
Core	115036 Research, analyse and evaluate regulatory discussion papers of the South African and International Regulatory environment	Level 5	15	Draft - Prep for P Comment
Core	115037 Maintain broadcast equipment within systems	Level 5	9	Draft - Prep for P Comment
Core	115038 Set-up and operate portable man pack microwave/RF links	Level 5	15	Draft - Prep for P Comment
Core	115039 Recover broadcast head-end faults	Level 5	9	Draft - Prep for P Comment
Core	115040 Make audio, video and data cables	Level 5	4	Draft - Prep for P Comment
Core	115041 Repair or replace broadcast equipment	Level 5	10	Draft - Prep for P Comment
Core	115042 Add new services to conditional access systems	Level 5	20	Draft - Prep for P Comment
Core	115043 Support users of audio and video equipment in the broadcast environment	Level 5	15	Draft - Prep for P Comment
Core	115044 Install broadcast equipment	Level 5	9	Draft - Prep for P Comment
Core	115045 Conduct broadcast transmission measurements	Level 5	20	Draft - Prep for P Comment
Core	115046 Make broadcast transmission cables	Level 5	6	Draft - Prep for P Comment
Core	115047 Maintain and repair broadcast transmission equipment	Level 5	20	Draft - Prep for P Comment
Core	115048 Maintain broadcast head-end equipment	Level 5	9	Draft - Prep for P Comment
Core	115050 Maintain broadcast head-end systems	Level 5	9	Draft - Prep for P Comment
Core	115051 Install and commission broadcast transmission equipment	Level 5	15	Draft - Prep for P Comment
Core	115031 Research, assess and propose technical solutions that meet broadcast requirements	Level 6	10	Draft - Prep for P Comment
Core	115049 Provide satellite broadcast contributions	Level 6	24	Draft - Prep for P Comment
Elective	8000 Applying basic business principles	Level 3	9	Reregistered
Elective	10133 Schedule project activities to facilitate effective project execution	Level 4	8	Registered
Elective	10135 Work as a project team member	Level 4	8	Registered
Elective	10385 Develop a business plan for a small business	Level 4	5	Registered
Elective	10386 Investigate the possibilities of establishing and running a small business enterprise (SMME)	Level 4	3	Registered
Elective	13835 Contribute to project initiation, scope definition and scope change control	Level 4	9	Registered
Elective	13942 Demonstrate a basic understanding of the role of a business strategy in managing a small business or a business unit	Level 4	5	Registered

Fundamental	12609	Contribute to effective working relationships	Level 4	4	Registered
Fundamental	115026	Measure electrical signals (with electronic instruments)	Level 5	6	Draft - Prep for P Comment
Fundamental	115035	Manage the administration of a technical workshop	Level 5	5	Draft - Prep for P Comment
Fundamental	115053	Administer local area computer networks	Level 5	9	Draft - Prep for P Comment
Fundamental	115054	Implement fault-finding techniques in electronic systems	Level 5	8	Draft - Prep for P Comment
Fundamental	115056	Manage the health and safety of the production environment	Level 5	6	Draft - Prep for P Comment



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

1

Add new services to conditional access systems

SAQA US ID	UNIT STANDARD TITLE		
115042	Add new services to conditional access systems		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	20

Specific Outcomes:**SPECIFIC OUTCOME 1**

Explain conditional access installation and configuration.

SPECIFIC OUTCOME 2

Plan new services.

SPECIFIC OUTCOME 3

Add new services to Conditional Access Systems.

SPECIFIC OUTCOME 4

Solve problems when adding new services.

SPECIFIC OUTCOME 5

Comply with workplace health and safety requirements during the adding of new services.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

2

Administer local area computer networks

SAQA US ID	UNIT STANDARD TITLE		
115053	Administer local area computer networks		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	9

Specific Outcomes:

SPECIFIC OUTCOME 1

Set-up user access to local area computer networks.

SPECIFIC OUTCOME 2

Resolve problems with local area computer networks.

SPECIFIC OUTCOME 3

Support clients of local area computer networks.

SPECIFIC OUTCOME 4

Maintain security systems for local area computer networks.

SPECIFIC OUTCOME 5

Create backups for local area computer networks.

SPECIFIC OUTCOME 6

Maintain good relations with clients and colleagues.



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UNIT STANDARD:

3

Calculate interferences for broadcast frequencies

SAQA US ID	UNIT STANDARD TITLE		
115028	Calculate interferences for broadcast frequencies		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	10

Specific Outcomes:**SPECIFIC OUTCOME 1**

Determine parameters for wanted and unwanted sites.

SPECIFIC OUTCOME 2

Perform interference calculations.

SPECIFIC OUTCOME 3

Analyse interference calculations.

SPECIFIC OUTCOME 4

Determine interferences for service areas and make recommendations.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

4

Conduct broadcast transmission measurements

SAQA US ID	UNIT STANDARD TITLE		
115045	Conduct broadcast transmission measurements		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	20

Specific Outcomes:

SPECIFIC OUTCOME 1

Plan the testing of transmission equipment.

SPECIFIC OUTCOME 2

Conduct measuring applications.

SPECIFIC OUTCOME 3

Comply with workplace health and safety requirements.

SPECIFIC OUTCOME 4

Interpret transmission measurements and make recommendations.

SPECIFIC OUTCOME 5

Solve transmission measurement problems.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

5

Implement fault-finding techniques in electronic systems

SAQA US ID	UNIT STANDARD TITLE		
115054	Implement fault-finding techniques in electronic systems		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	8

Specific Outcomes:**SPECIFIC OUTCOME 1**

Read and interpret schematic diagrams.

SPECIFIC OUTCOME 2

Compile block diagrams of operations and functions of equipment.

SPECIFIC OUTCOME 3

Relate information of the block diagrams to circuit boards.

SPECIFIC OUTCOME 4

Test electronic systems (using instrumentation).

SPECIFIC OUTCOME 5

Select electronic system fault location strategies.

SPECIFIC OUTCOME 6

Locate faults in electronic systems.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

6

Install and commission broadcast transmission equipment

SAQA US ID	UNIT STANDARD TITLE		
115051	Install and commission broadcast transmission equipment		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	15

Specific Outcomes:

SPECIFIC OUTCOME 1

Prepare for installation activities.

SPECIFIC OUTCOME 2

Install transmission equipment.

SPECIFIC OUTCOME 3

Comply with workplace health and safety requirements.

SPECIFIC OUTCOME 4

Commission installations.

SPECIFIC OUTCOME 5

Solve installation and commissioning problems.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

7

Install broadcast equipment

SAQA US ID	UNIT STANDARD TITLE		
115044	Install broadcast equipment		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	9

Specific Outcomes:**SPECIFIC OUTCOME 1**

Plan broadcast installation activities.

SPECIFIC OUTCOME 2

Install broadcast equipment.

SPECIFIC OUTCOME 3

Comply with international broadcast standards, company specific standards and safety standards.

SPECIFIC OUTCOME 4

Maintain good relations with clients and colleagues during installations.

SPECIFIC OUTCOME 5

Solve installation problems.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

8

Maintain and repair broadcast transmission equipment

SAQA US ID	UNIT STANDARD TITLE		
115047	Maintain and repair broadcast transmission equipment		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	20

Specific Outcomes:**SPECIFIC OUTCOME 1**

Prepare for maintenance of transmission equipment.

SPECIFIC OUTCOME 2

Maintain transmission equipment.

SPECIFIC OUTCOME 3

Diagnose transmission equipment faults.

SPECIFIC OUTCOME 4

Repair or replace broadcast transmission equipment or components.

SPECIFIC OUTCOME 5

Comply with workplace health and safety requirements.

SPECIFIC OUTCOME 6

Provide feedback on work operations.

SPECIFIC OUTCOME 7

Solve maintenance and repair problems.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

9

Maintain broadcast equipment within systems

SAQA US ID	UNIT STANDARD TITLE		
115037	Maintain broadcast equipment within systems		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	9

Specific Outcomes:**SPECIFIC OUTCOME 1**

Prepare for maintenance activities.

SPECIFIC OUTCOME 2

Maintain equipment within broadcast systems.

SPECIFIC OUTCOME 3

Comply with workplace health and safety requirements.

SPECIFIC OUTCOME 4

Report and feedback on maintenance activities.

SPECIFIC OUTCOME 5

Solve maintenance problems.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

10

Maintain broadcast head-end equipment

SAQA US ID	UNIT STANDARD TITLE		
115048	Maintain broadcast head-end equipment		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	9

Specific Outcomes:**SPECIFIC OUTCOME 1**

Plan broadcast head-end equipment maintenance.

SPECIFIC OUTCOME 2

Maintain broadcast head-end equipment.

SPECIFIC OUTCOME 3

Comply with workplace health and safety requirements.

SPECIFIC OUTCOME 4

Solve head-end maintenance problems.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

11

Maintain broadcast head-end systems

SAQA US ID	UNIT STANDARD TITLE		
115050	Maintain broadcast head-end systems		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	9

Specific Outcomes:**SPECIFIC OUTCOME 1**

Plan head-end broadcast systems maintenance.

SPECIFIC OUTCOME 2

Maintain broadcast head-end systems.

SPECIFIC OUTCOME 3

Upgrade hardware and software.

SPECIFIC OUTCOME 4

Provide feedback on maintenance activities.

SPECIFIC OUTCOME 5

Comply with workplace health and safety requirements during system maintenance activities

SPECIFIC OUTCOME 6

Solve head-end system maintenance problems.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

12

Make audio, video and data cables

SAQA US ID	UNIT STANDARD TITLE		
115040	Make audio, video and data cables		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	4

Specific Outcomes:

SPECIFIC OUTCOME 1

Select and obtain tools and materials for making cables.

SPECIFIC OUTCOME 2

Make audio, video and data cables.

SPECIFIC OUTCOME 3

Test cables.

SPECIFIC OUTCOME 4

Apply health and safety requirements.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

13

Make broadcast transmission cables

SAQA US ID	UNIT STANDARD TITLE		
115046	Make broadcast transmission cables		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	6

Specific Outcomes:**SPECIFIC OUTCOME 1**

Select and obtain tools and materials for making transmission cables and connectors.

SPECIFIC OUTCOME 2

Apply processes and procedures to terminate transmission cables.

SPECIFIC OUTCOME 3

Comply with workplace health and safety requirements.

SPECIFIC OUTCOME 4

Report on work operations.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

14

Manage the administration of a technical workshop

SAQA US ID	UNIT STANDARD TITLE		
115035	Manage the administration of a technical workshop		
SGB NAME		ABET BAND	PROVIDER NAME
SGB Audio-visual Media Production		Undefined	
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	5

Specific Outcomes:

SPECIFIC OUTCOME 1

Manage the administration of a technical workshop.

SPECIFIC OUTCOME 2

Log faults and follow-up.

SPECIFIC OUTCOME 3

Maintain supplies of spares.

SPECIFIC OUTCOME 4

Update technical drawings.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

15

Manage the health and safety of the production environment

SAQA US ID	UNIT STANDARD TITLE		
115056	Manage the health and safety of the production environment		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	6

Specific Outcomes:**SPECIFIC OUTCOME 1**

Assess potential hazard to health and safety on a production.

SPECIFIC OUTCOME 2

Control potential risks to health and safety on a production.

SPECIFIC OUTCOME 3

Execute procedures when a hazard occurs on a production.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

16

Measure electrical signals (with electronic instruments)

SAQA US ID	UNIT STANDARD TITLE		
115026	Measure electrical signals (with electronic instruments)		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	6

Specific Outcomes:**SPECIFIC OUTCOME 1**

Perform measurements in electronic circuits (using analogue and digital multimeters)

SPECIFIC OUTCOME 2

Measure waveforms in electronic circuits (using a cathode ray oscilloscope (CRO))

SPECIFIC OUTCOME 3

Test electronic circuits (using function generators and frequency counters)



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

17

Measure, analyse and report on broadcast field strengths

SAQA US ID	UNIT STANDARD TITLE		
115029	Measure, analyse and report on broadcast field strengths		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	10

Specific Outcomes:**SPECIFIC OUTCOME 1**

Establish measurement points.

SPECIFIC OUTCOME 2

Prepare to conduct coverage measurements.

SPECIFIC OUTCOME 3

Measure VHF/UHF field strengths.

SPECIFIC OUTCOME 4

Measure medium wave field strengths.

SPECIFIC OUTCOME 5

Measure VHF/UHF coverage.

SPECIFIC OUTCOME 6

Measure medium wave coverage.

SPECIFIC OUTCOME 7

Reconcile VHF/UHF and coverage measurements.

SPECIFIC OUTCOME 8

Analyse coverage results and propose recommendations.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

18

Modify an International Telecommunication Union (ITU) assignment plan

SAQA US ID	UNIT STANDARD TITLE		
115034	Modify an International Telecommunication Union (ITU) assignment plan		
SGB NAME		ABET BAND	PROVIDER NAME
SGB Audio-visual Media Production		Undefined	
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	4

Specific Outcomes:

SPECIFIC OUTCOME 1

Determine regulatory provisions of applicable regional agreement.

SPECIFIC OUTCOME 2

Determine co-ordination with neighbouring countries.

SPECIFIC OUTCOME 3

Notify the ITU of frequency agreements.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

19

Monitor, diagnose and repair service levels for conditional access pay television encryption systems

SAQA US ID	UNIT STANDARD TITLE		
115025	Monitor, diagnose and repair service levels for conditional access pay television encryption systems		
SGB NAME		ABET BAND	PROVIDER NAME
SGB Audio-visual Media Production		Undefined	
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	15

Specific Outcomes:**SPECIFIC OUTCOME 1**

Understand conditional access pay television encryption systems.

SPECIFIC OUTCOME 2

Monitor the service levels.

SPECIFIC OUTCOME 3

Diagnose system faults.

SPECIFIC OUTCOME 4

Repair service levels.

SPECIFIC OUTCOME 5

Solve service level problems.

SPECIFIC OUTCOME 6

Maintain good relations with clients and colleagues when repairing service levels.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

20

Perform routing and switching in a broadcast environment

SAQA US ID	UNIT STANDARD TITLE		
115033	Perform routing and switching in a broadcast environment		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	9

Specific Outcomes:

SPECIFIC OUTCOME 1

Route audio and video signals in a broadcast environment.

SPECIFIC OUTCOME 2

Set up audio and video routers.

SPECIFIC OUTCOME 3

Maintain routers and switchers.

SPECIFIC OUTCOME 4

Create backups.

SPECIFIC OUTCOME 5

Solve routing and switching problems.

SPECIFIC OUTCOME 6

Maintain good relations with clients and colleagues when routing and switching signals.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

21

Predict broadcast signal coverage

SAQA US ID	UNIT STANDARD TITLE		
115032	Predict broadcast signal coverage		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	15

Specific Outcomes:**SPECIFIC OUTCOME 1**

Determine parameters for wanted sites.

SPECIFIC OUTCOME 2

Perform coverage calculations.

SPECIFIC OUTCOME 3

Analyse coverage calculations.

SPECIFIC OUTCOME 4

Predict signal coverage and prepare reports.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

22

Recover broadcast head-end faults

SAQA US ID	UNIT STANDARD TITLE		
115039	Recover broadcast head-end faults		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	9

Specific Outcomes:

SPECIFIC OUTCOME 1

Recover simple head-end faults.

SPECIFIC OUTCOME 2

Recover complex head-end faults

SPECIFIC OUTCOME 3

Comply with workplace health and safety requirements

SPECIFIC OUTCOME 4

Provide feedback on recovery of faults

SPECIFIC OUTCOME 5

Solve technical head-end problems



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

23

Repair or replace broadcast equipment

SAQA US ID	UNIT STANDARD TITLE		
115041	Repair or replace broadcast equipment		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	10

Specific Outcomes:**SPECIFIC OUTCOME 1**

Plan fault finding activities.

SPECIFIC OUTCOME 2

Diagnose faults in broadcast equipment.

SPECIFIC OUTCOME 3

Diagnose faults in broadcast system.

SPECIFIC OUTCOME 4

Repair or replace broadcast equipment.

SPECIFIC OUTCOME 5

Comply with workplace health & safety requirements when repairing or replacing broadcast equipment.

SPECIFIC OUTCOME 6

Report and feedback on repair or replacement activities.

SPECIFIC OUTCOME 7

Solve problems related to repairing and replacing equipment.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

24

Research, analyse and evaluate regulatory discussion papers of the South African and International Regulatory environment

SAQA US ID	UNIT STANDARD TITLE		
115036	Research, analyse and evaluate regulatory discussion papers of the South African and International Regulatory environment		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	15

Specific Outcomes:

SPECIFIC OUTCOME 1

Evaluate the goal and content of regulatory discussion papers.

SPECIFIC OUTCOME 2

Evaluate the impact of specific discussion papers on stakeholders.

SPECIFIC OUTCOME 3

Make recommendations to relevant stakeholders.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

25

Set-up and operate portable man pack microwave/RF links

SAQA US ID	UNIT STANDARD TITLE		
115038	Set-up and operate portable man pack microwave/RF links		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	15

Specific Outcomes:**SPECIFIC OUTCOME 1**

Plan man pack RF and microwave links.

SPECIFIC OUTCOME 2

Establish suitable equipment for links.

SPECIFIC OUTCOME 3

Set-up man pack links.

SPECIFIC OUTCOME 4

Operate man pack link.

SPECIFIC OUTCOME 5

Solve technical man pack link problems.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

26

Set-up and operate portable microwave links

SAQA US ID	UNIT STANDARD TITLE		
115030	Set-up and operate portable microwave links		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	20

Specific Outcomes:**SPECIFIC OUTCOME 1**

Research and design communication/broadcasts by microwave link.

SPECIFIC OUTCOME 2

Identify and prepare suitable equipment for links.

SPECIFIC OUTCOME 3

Secure access to communication sites.

SPECIFIC OUTCOME 4

Set up microwave links.

SPECIFIC OUTCOME 5

Operate microwave links.

SPECIFIC OUTCOME 6

Solve technical microwave link problems.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

27

Support users of audio and video equipment in the broadcast environment

SAQA US ID	UNIT STANDARD TITLE		
115043	Support users of audio and video equipment in the broadcast environment		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	15

Specific Outcomes:**SPECIFIC OUTCOME 1**

Optimise setups, adjustments and selections of broadcast equipment for specific applications.

SPECIFIC OUTCOME 2

Use broadcast equipment.

SPECIFIC OUTCOME 3

Provide operational support to users.

SPECIFIC OUTCOME 4

Report and feedback on support issues.

SPECIFIC OUTCOME 5

Solve technical support problems.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

28

Understand the operational principles and circuit theory of satellite and digital television decoders

SAQA US ID	UNIT STANDARD TITLE		
115027	Understand the operational principles and circuit theory of satellite and digital television decoders		
SGB NAME		ABET BAND	PROVIDER NAME
SGB Audio-visual Media Production		Undefined	
FIELD DESCRIPTION		SUBFIELD DESCRIPTION	
Communication Studies and Language		Communication Studies	
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 5	4

Specific Outcomes:

SPECIFIC OUTCOME 1

Explain the fundamental principles of television signal transmission and reception.

SPECIFIC OUTCOME 2

Identify and explain the signal processing performed in satellite and digital television decoders.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

29

Provide satellite broadcast contributions

SAQA US ID	UNIT STANDARD TITLE		
115049	Provide satellite broadcast contributions		
SGB NAME	ABET BAND	PROVIDER NAME	
SGB Audio-visual Media Production	Undefined		
FIELD DESCRIPTION	SUBFIELD DESCRIPTION		
Communication Studies and Language	Communication Studies		
UNIT STANDARD CODE	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
COM-CMS-0-SGB AVMP	Regular	Level 6	24

Specific Outcomes:**SPECIFIC OUTCOME 1**

Plan satellite uplinks.

SPECIFIC OUTCOME 2

Set-up satellite uplinks.

SPECIFIC OUTCOME 3

Access satellites.

SPECIFIC OUTCOME 4

Establish successful satellite downlinks.

SPECIFIC OUTCOME 5

Secure continuous broadcasts.

SPECIFIC OUTCOME 6

Log satellite links.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

30

Research, assess and propose technical solutions that meet broadcast requirements

<i>SAQA US ID</i>	<i>UNIT STANDARD TITLE</i>		
115031	Research, assess and propose technical solutions that meet broadcast requirements		
<i>SGB NAME</i>		<i>ABET BAND</i>	<i>PROVIDER NAME</i>
SGB Audio-visual Media Production		Undefined	
<i>FIELD DESCRIPTION</i>		<i>SUBFIELD DESCRIPTION</i>	
Communication Studies and Language		Communication Studies	
<i>UNIT STANDARD CODE</i>	<i>UNIT STANDARD TYPE</i>	<i>NQF LEVEL</i>	<i>CREDITS</i>
COM-CMS-0-SGB AVMP	Regular	Level 6	10

Specific Outcomes:

SPECIFIC OUTCOME 1

Research technical solutions for broadcast requirements.

SPECIFIC OUTCOME 2

Evaluate solutions.

SPECIFIC OUTCOME 3

Develop installation plans for technical solutions.

SPECIFIC OUTCOME 4

Propose solutions.