

GOVERNMENT NOTICES

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

No. 90

3 February 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

Secondary Agriculture: Processing

Registered by Organising Field 01, Agriculture and Nature Conservation, publishes the following unit standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the unit standards. The unit standards can be accessed via the SAQA web-site at www.saga.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 qualification and unit standards should reach SAQA at the address ***below and no later than 3 March 2006.*** All correspondence should be marked **Standards Setting – SGB for Secondary Agriculture: Processing** and addressed to

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SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION:

National Certificate: Rooibos Processing

SAQA QUAL ID	QUALIFICATION TITLE		
50226	National Certificate: Rooibos Processing		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
QUAL TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD	
National Certificate	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUALIFICATION CLASS
Undefined	121	Level 2	Regular-Unit Stds Based

PURPOSE AND RATIONALE OF THE QUALIFICATION

Purpose:

The qualification provides learners with the opportunity to gain competence in Rooibos processing and will facilitate their securing employment in the industry. For those who are already employed on a Rooibos plantation, the multi-skilling that the qualification offers will open up a career path in the industry.

A learner achieving this qualification will be able to work effectively and productively within the Rooibos processing industry knowing:

- > The structure and supply chain of the Rooibos industry.
- > Health and safety principles for Rooibos processing.
- > The principles and practices for maintaining hygiene in Rooibos processing.
- > The procedures for the fermentation of Rooibos.
- > The procedures for processing Rooibos.
- > The value adding processes that are performed.
- > Quality assurance and good manufacturing practices for Rooibos.

The qualification will facilitate multi-skilling, which in turn, will have a positive impact on the efficiency and productivity of the processing facilities.

The combined commitment of the learners and employers in the achievement of this qualification will help alleviate the transient nature of the workers at this level, which will result in a skilled, stable and efficient workforce.

Rationale:

The qualification addresses the urgent need for the establishment of skills and accompanying standards that the industry required, especially within the SMME sector. This will allow them to operate on a more professional basis

This qualification and the resultant skills that are learnt will have a positive contribution to the establishment of small processing plants.

The qualification embodies the international requirements for Good Manufacturing Practices (GMP) and Hazard Analysis Critical Control Points (HACCP), which will ensure that producers will be able to export Rooibos products to meet stringent international requirements.

RECOGNIZE PREVIOUS LEARNING?

Y

LEARNING ASSUMED TO BE IN PLACE

Learners who would like to access this qualification should have demonstrated competency in Communication and Mathematical Literacy at **NQF** Level 1.

Recognition of Previous Learning:

The qualification may be achieved in part or as a whole through the Recognition of Prior Learning (RPL). This may include formal, non-formal learning and work experience. Where RPL is required the learner will need to prove competence in the specific area, or areas, in order to obtain recognition of these skills and knowledge.

QUALIFICATION RULES

This qualification consists of a minimum of 121 credits, composed of:

- > Fundamental: 36 - Compulsory for all learners.
- > Core: 65 - Compulsory for all learners.
- > Electives: 20 - Learners to choose unit standards totalling 20 credits from the listed elective standards.

EXIT LEVEL OUTCOMES

1. Communicate effectively in the workplace.
2. Utilise mathematical literacy correctly.
3. Apply life skills in personal and community environments.
4. Identify the characteristics that determine the grading of Rooibos.
5. Prepare and ferment the Rooibos raw product.
6. Pasteurise, flavour and package Rooibos.
7. Demonstrate an understanding of the functioning of a quality assurance system for Rooibos processing.

Critical Cross - Field Outcomes (CCFO's):

The unit standards in the qualification are structured to contain specific and cross-field outcomes. The integration of the latter is vital to the full development and social upliftment of the learner. The critical cross-field outcomes are intended to guide the providers in developing the learning material.

The relevant CCFOs include:

- > The learner is able to identify and solve problems in which responses display that responsible decisions using critical and creative thinking have been made.
- > The learner is able to work effectively with others and demonstrate their willingness to be part of the team.
- > The learner is able to organise and manage themselves and their activities responsibly and effectively.
- > The learner is able to communicate effectively using visual, mathematical and/or language skills in the modes of oral and/or written presentation.
- > The learner is able to collect, analyse, organise and critically evaluate information.
- > The learner is able to use science and technology effectively and critically, showing responsibility towards the environment and health of others.
- > The learner is able to demonstrate an understanding of the world as a set of related systems by recognizing that problem-solving contexts do not exist in isolation.

ASSOCIATED ASSESSMENT CRITERIA

1.
 - > Oral communication is carried out effectively in the workplace with clients and colleagues.
 - > Reports are written for the workplace using appropriate language.
2.
 - > Number systems and rational and irrational numbers are related.
 - > Workplace problems are solved using statistical data collected in the workplace.
 - > Mathematics literacy is used to monitor and control finances.

3.

- > Self management skills are demonstrated.
- > The preventative measures and implications of HIV/AIDS are explained.

4.

- > The specifications used to evaluate and determine the grading of Rooibos are described.
- > Rooibos raw product is sampled and tested using industry processes and procedures.

5.

- > The harvested Rooibos is cut to the specified lengths.
- > The procedures for spreading and bruising cut Rooibos are described.
- > The formation of fermentation heaps and monitoring of the fermentation process is explained.

6.

- > The procedures for monitoring the steam temperature during the pasteurizing process are described.
- > The preparation of various flavourants to suit the client's requirements is demonstrated.
- > Rooibos products are bagged and packaged to the client's specifications.

7.

- > The necessity of instituting a quality assurance system in a Rooibos processing plant is explained.
- > The contribution that a quality assurance system plays in the maintenance of high standards in Rooibos processing is explained.
- > The importance of following the standard operating procedures to ensure effective quality control is explained.

Integrated assessment:

The integrated assessment allows Learners the opportunity to show that they are able to utilize concepts, ideas and actions across unit standards. This will allow Learners to achieve competency that is in keeping with the purpose of the qualification.

An integrated assessment will indicate how theoretical learning is demonstrated in a practical environment in such a way that the application of the work learnt becomes second nature.

In conducting an assessment, the quality of the performance must also be evaluated i.e. both the performance and the thinking behind the action must be qualitative.

The assessment should include both formative and summative options and should use various assessment tools i.e. not by observation only. It is suggested that a Portfolio of Assessment forms part of the summative assessment, with practical outcomes being demonstrated in a simulated or real work place situation.

A broad range of task-orientated and theoretical tools may be used, with the distinction between practical knowledge and disciplinary knowledge being maintained.

Unit Standards in the qualification must be used to assess the specific and Critical Cross-Field Outcomes. It is recommended that the assessment tools give Learners the opportunity to account for their decision-making and problem solving in line with the Specific Outcomes and related Assessment Criteria.

As this qualification forms the foundation for a career in Rooibos production, learners should be assessed in occupational contexts and activities. The assessment should ensure that the foundational skills are portable and prepare them for further learning, whatever career path they may choose.

INTERNATIONAL COMPARABILITY

Rooibos tea production is unique to South Africa, which makes international comparability impossible. However, similarities exist between Rooibos production and Black Tea (Ceylon) production. This qualification was compared with training offered in Black Tea production and processing in Sri Lanka, India, Kenya and Malawi.

While training in tea growing and processing in Kenya and Malawi is extensively done by the organisations and companies involved in the industry, no formal qualifications exist. However, it has been determined that the contents of the training given in those countries relates very closely to what is offered in this qualification.

Competencies such as seed cultivation, soil preparation, plant propagation and tea processing form major parts of their training programmes. The South African qualification includes soil analyses which is not

covered in Kenya and Malawi.

Australia and New Zealand have well developed training programmes for Black Tea production and processing. The following Australian unit standards are recommended for use in their Tea processing industries. These were examined, and the notable similarities are:

> Registration No FDFTCDC1A - Locate Industry and company products and processes (Tea and Coffee):

> This level 1 unit standard covers the practices and procedures used in Tea and Coffee processing.
> An emphasis on food safety and **OHS** (Occupational Health and Safety) is paramount for both their processes and those of Rooibos.

> Registration No FDFTCBT2A - Blend Tea:

> This level 2 unit standard covers the practices and procedures for the selection of various grades of Tea for blending.
> The processes and procedures are comparable with those used for Rooibos.

> Registration No FDFTC0S3A - Operate a system (Tea and Coffee):

> This level 3 unit standard concerns the preparation and operation of Tea processing and packaging equipment.
> The importance of monitoring and ensuring quality assurance in their processes, is also a prime function for Rooibos.

> Registration No FDFZZPM1A - Pack product manually:

> This level 1 unit standard covers all facets of manual packaging of processed goods for the food industry.
> Various forms of packaging referred to in this unit standard, are similar to those used in Rooibos processing.
> The emphasis placed on hygiene in the packaging environment is also a prime function of Rooibos processing and packaging.

In conclusion, it would appear that the competencies developed in this qualification compare favourably with those offered in the countries researched.

ARTICULATION OPTIONS

The qualification is designed to provide a structured learning path for employees in the Rooibos Processing industry in South Africa, be they in the employ of commercial businesses or as entrepreneurs.

This qualification will enable horizontal articulation, where learners may move within the Rooibos industry, between the fields of Production and Processing.

The learning areas in the qualification will facilitate horizontal articulation with the following:

- > National Certificate in Tea Production and Processing **NQF level 2 (ID 48903)**
- > National Certificate in Agri Trade processes **NQF level 2 (ID 14851)**

MODERATION OPTIONS

Anyone assessing a learner against these unit standards must be registered as an assessor with the relevant ETQA and have experience, or in depth knowledge of the Rooibos industry.

Any institution offering learning that will enable achievement of these unit standards or will assess these unit standards must be accredited as a provider with the relevant ETQA. Moderation of assessment will be overseen by the relevant ETQA according to the moderation guidelines in the qualification and the agreed ETQA procedure.

Therefore anyone wishing to be assessed against these unit standards may apply to be assessed by any assessment agency, assessor or provider institution which is accredited by the relevant ETQA.

CRITERIA FOR THE REGISTRATION OF ASSESSORS

Assessors must:

- > Be registered as an assessor by the relevant ETQA.
- > Have experience or in depth **knowledge** of the agricultural and food processing industry, specifically **as** it relates to the **Rooibos** sector.
- > **Hold** a qualification in Agriculture at NQF Level 3 or higher.

NOTES

N/A

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	8494 Demonstrate an understanding of HIV/AIDS and its implications	Level 2	4	Reregistered
core	123156 Conduct post harvest <i>cutting</i> of Rooibos	Level 2	6	Draft - Prep for P Comment
Core	123160 Bruise, ferment and dry Rooibos cuttings	Level 2	6	Draft - Prep for P Comment
core	123161 Receive and grade rooibos	Level 2	4	Draft - Prep for P Comment
core	123163 Screen and Mend Rooibos	Level 2	5	Draft - Prep for P Comment
core	123164 Pasteurise, dry and bag Rooibos	Level 2	8	Draft - Prep for P Comment
core	123165 Demonstrate an understanding of the Rooibos industry	Level 2	2	Draft - Prep for P Comment
core	123167 Monitor the quality assurance in Rooibos processing	Level 2	8	Draft - Prep for P Comment
Core	123169 Flavour and pack Rooibos to clients' specifications	Level 2	6	Draft - Prep for P Comment
core	123172 Apply health and safety in Rooibos production and processing	Level 2	7	Draft - Prep for P Comment
core	123173 Demonstrate knowledge of hygiene practices in Rooibos production and processing	Level 2	6	Draft - Prep for P Comment
core	123251 Despatch packaged Rooibos products	Level 2	3	Draft - Prep for P Comment
Elective	9599 Lift and move material and equipment by means of a forklift	Level 2	3	Registered
Elective	116820 Drive a tractor	Level 2	10	Registered
Elective	123158 Demonstrate an understanding of Rooibos culture practices	Level 2	12	Draft - Prep for P Comment
Elective	8000 Applying basic business principles	Level 3	9	Reregistered
Fundamental	7469 Use mathematics to investigate and monitor the financial aspects of personal and community life	Level 2	2	Reregistered
Fundamental	7480 Demonstrate understanding of rational and irrational numbers and number systems	Level 2	3	Reregistered
Fundamental	8982 Maintain and adapt oral communication	Level 2	5	Reregistered
Fundamental	8963 Access and use information from texts	Level 2	5	Reregistered
Fundamental	8964 Write for a defined context	Level 2	5	Reregistered
Fundamental	8965 Respond to literary texts	Level 2	5	Reregistered
Fundamental	9007 Work with a range of patterns and functions and solve problems	Level 2	5	Reregistered
Fundamental	9008 Identify, describe, compare, classify, explore shape and motion in 2- and 3-dimensional shapes in different contexts	Level 2	3	Reregistered
Fundamental	9009 Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems	Level 2	3	Reregistered



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION:

National Certificate: Rooibos Production

SAQA QUAL ID	QUALIFICATION TITLE		
50227	National Certificate: Rooibos Production		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
QUAL TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD	
National Certificate	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUALIFICATION CLASS
Undefined	121	Level 2	Regular-Unit Stds Based

PURPOSE AND RATIONALE OF THE QUALIFICATION

Purpose:

The qualification provides learners with the opportunity to gain competence in Rooibos production and will facilitate their securing employment in the industry. For those who are already employed on a Rooibos plantation, the multi-skilling that the qualification offers will open up a career path in the industry. The qualification focuses on the skills, knowledge and values that are required in Rooibos production. A learner achieving this qualification will be able to work effectively and productively within the Rooibos production environment knowing:

- > The structure and supply chain of the Rooibos industry,
- > Health and safety principles for Rooibos production,
- > The relationship that the environment has on crop production.
- > The fertility of the soil and how to apply fertilisers.
- > The propagation and care of Rooibos seedlings.
- > The cultural practices for effective Rooibos production.
- > The practices to maintain hygiene in Rooibos production and processing.
- > The harvesting and seed collection practices.

The combined commitment of the learners and employers in the achievement of this qualification will help alleviate the transient nature of the workers at this level, which will result in a skilled, stable and efficient workforce.

Rationale:

The qualification addresses the urgent need for the establishment of skills and accompanying standards that the Rooibos production industry requires, especially on the smaller plantations and for the emerging farmers. The qualification provides learners with access to learning in specialised areas within the Rooibos industry. In addition, the qualification will equip the learners with the necessary background knowledge and skills to be portable within other agricultural industries.

This qualification and the resultant skills that are gained will have a positive contribution to the productivity and sustainability of existing plantations and those of emerging farmers. This in turn will address one of the national priorities of reducing the level of unemployment and under employment.

RECOGNIZE PREVIOUS LEARNING?

Y

LEARNING ASSUMED TO BE IN PLACE

Learners who would like to access this qualification should have demonstrated competency in Communication and Mathematical Literacy at NQF Level 1.

Recognition of Previous Learning:

The qualification may be achieved in part or as a whole through the Recognition of Prior Learning (RPL). This may include formal, non-formal learning and work experience. Where RPL is required, the learner will need to prove competence in the specific area, or areas, in order to obtain recognition of these skills and knowledge.

QUALIFICATION RULES

This qualification consists of a minimum of 121 credits, composed of:

- > Fundamental: 40 - Compulsory for all learners
- > Core: 61 - Compulsory for all learners
- > Electives: 20 - Learners to choose unit standards totalling 20 credits from the listed elective standards

EXIT LEVEL OUTCOMES

1. Communicate effectively in the workplace.
2. Utilise mathematical literacy correctly.
3. Apply life skills in personal and community environments.
4. Propagate and care for Rooibos seedlings in a nursery area.
5. Establish and provide care for Rooibos plants in a plantation.
6. Harvest Rooibos.
7. Collect and prepare Rooibos seed for planting.

Critical Cross-Field Outcomes (CCFO's):

The unit standards in the qualification are structured to contain specific and cross-field outcomes. The integration of the latter is vital to the full development and social upliftment of the learner. The critical cross-field outcomes are intended to guide the providers in developing the learning material.

The relevant CCFO's include:

- > The learner is able to identify and solve problems in which responses display that responsible decisions using critical and creative thinking have been made.
- > The learner is able to work effectively with others and demonstrate their willingness to be part of the team.
- > The learner is able to organise and manage themselves and their activities responsibly and effectively.
- > The learner is able to communicate effectively using visual, mathematical and/or language skills in the modes of oral and/or written presentation.
- > The learner is able to collect, analyse, organise and critically evaluate information,
- > The learner is able to use science and technology effectively and critically, showing responsibility towards the environment and health of others.
- > The learner is able to demonstrate an understanding of the world as a set of related systems by recognizing that problem-solving contexts do not exist in isolation.

ASSOCIATED ASSESSMENT CRITERIA

1.
 - > Oral communication is carried out effectively in the workplace with clients and colleagues.
 - > Reports are written for the workplace using appropriate language.
2.
 - > Mathematics literacy is used to monitor and control finances.
 - > Workplace problems are solved using mathematical concepts and calculations.
3.
 - > Self management skills are demonstrated.
 - > An awareness of the preventative measures and implications of HIV/AIDS are explained.
- 4.

- > The procedures for the preparation of a seed bed are applied.
 - > The sowing of Rooibos seed and the monitoring of germination are described.
 - > The procedures for the hardening off of the Rooibos seedlings are described.
- 5.
- > The procedures for the clearing and preparation of a Rooibos plantation are demonstrated.
 - > Suitable holes are excavated and Rooibos seedlings are planted.
 - > The soil and climatic conditions that are best suited to the cultivation of Rooibos are described.
- 6.
- > The importance of the correct timing of the harvest and the different requirements for young and mature plants is understood.
 - > Harvesting techniques are used and good hygiene are maintained and demonstrated.
- 7.
- > The ideal period for the collection of Rooibos seed and the methods to gather the seed bearing material are described.
 - > The techniques used in sieving and further treatment of Rooibos seed are described.

Integrated assessment:

The integrated assessment allows Learners the opportunity to show that they are able to utilize concepts, ideas and actions across unit standards. This will allow Learners to achieve competency that is in keeping with the purpose of the qualification.

An integrated assessment will indicate how theoretical learning is demonstrated in a practical environment in such a way that the application of the work learnt becomes second nature.

In conducting an assessment, the quality of the performance must also be evaluated i.e. both the performance and the thinking behind the action must be qualitative.

The assessment should include both formative and summative options and should use various assessment tools i.e. not by observation only. It is suggested that a Portfolio of Assessment forms part of the summative assessment, with practical outcomes being demonstrated in a simulated or real work place situation.

A broad range of task-orientated and theoretical tools may be used, with the distinction between practical knowledge and disciplinary knowledge being maintained.

Unit Standards in the qualification must be used to assess the specific and Critical Cross-Field Outcomes. It is recommended that the assessment tools give Learners the opportunity to account for their decision-making and problem solving in line with the Specific Outcomes and related Assessment Criteria.

As this qualification forms the foundation for a career in Rooibos production, learners should be assessed in occupational contexts and activities. The assessment should ensure that the foundational skills are portable and prepare them for further learning, whatever career path they may choose.

INTERNATIONAL COMPARABILITY

Rooibos tea production is unique to South Africa, which makes international comparability impossible. However, similarities exist between Rooibos production and Black Tea (Ceylon) production. This qualification was compared with training offered in Black Tea production in Sri Lanka, India, Kenya and Malawi. The processing of Rooibos was also compared with Tea Processing Training in Australia and New Zealand who have well developed training programmes in this sector.

While training in tea growing and processing in Kenya and Malawi is extensively done by the organisations and companies involved in the industry, no formal qualifications exist. However, it has been determined that the contents of the training given in those countries relates very closely to what is offered in this qualification.

Competencies such as seed cultivation, soil preparation, plant propagation and tea processing form major parts of their training programmes. The South African qualification includes soil analyses which is not covered in Kenya and Malawi.

The following Australian qualifications and the notable similarities are:

1. Registration No RUH10898 - Certificate in Horticulture (Production)

- > This level 1 qualification covers the practices and procedures used in the propagation of plants.
- > The qualification includes the aspects of propagation from seed and the care of seedlings, which is relevant to Rooibos.

2. Registration No RAU21698 - Certificate in Agriculture (Production Horticulture)

- > This level 2 qualification covers the practices and procedures for the hardening off of seedlings in preparation for planting out.
- > The processes and procedures are comparable with those used for Rooibos.

In conclusion, it would appear that the competencies developed in this qualification compare favourable with that offered in the countries researched.

ARTICULATION OPTIONS

The qualification is designed to provide a structured learning path for employees in the Rooibos Production industry in South Africa, be they in employ of large plantations or small farms.

This qualification will enable horizontal articulation, where learners may move within the Rooibos industry, between the fields of Production and Processing. Many farms have basic processing facilities to improve their service and profitability.

While the Production and Processing qualifications diverge, there remains sufficient common ground for holders of one qualification to be able to be employed in the other field with minimum additional training.

The learning areas in the qualification will facilitate horizontal and vertical articulation in the following:

- > National Certificate in Tea Production and Processing NQF level 2 (ID 48903).
- > National Certificate in AgriTrade processes NQF level 2 (ID 14851).
- > National Certificate in Farming NQF level 3 (ID 20289).
- > National Certificate in Plant Production NQF level 2 (ID 48975).

MODERATION OPTIONS

- > Anyone assessing a learner against these unit standards must be registered as an assessor with the relevant ETQA and have experience in or in depth knowledge of the Rooibos industry.
- > Any institution offering learning that will enable achievement of this qualification or its constituent unit standards or that will assess these unit standards must be accredited as a provider with the relevant ETQA.
- > Moderation of assessment will be overseen by the relevant ETQA according to the moderation guidelines in the qualification and the agreed ETQA procedure.
- > Therefore anyone wishing to be assessed against these unit standards may apply to be assessed by any assessment agency, assessor or provider institution which is accredited by the relevant ETQA.

CRITERIA FOR THE REGISTRATION OF ASSESSORS

Assessors must:

- > Be accredited as an assessor by the relevant ETQA.
- > Have experience or in depth knowledge of the agricultural and food processing industry, specifically as it relates to the Rooibos sector.
- > Hold a qualification in Agriculture at NQF Level 3 or higher.

NOTES

NIA

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	12556 Apply fertiliser manually	Level 2	2	Reregistered

core	13355 Demonstrate an understanding of the physical and biological environment and its relationship to sustainable crop production	Level 1	4	Reregistered
core	116053 Understand basic soil fertility and plant nutrition	Level 2	5	Registered
Core	123154 Propagate rooibos from seed	Level 2	6	Draft - Prep for P Comment
core	123157 Provide care for rooibos seedlings	Level 2	4	Draft - Prep for P Comment
core	123158 Demonstrate an understanding of Rooibos culture practices	Level 2	12	Draft - Prep for P Comment
Core	123159 Conduct soil preparation and transplant rooibos seedlings	Level 2	5	Draft - Prep for P Comment
Core	123162 Conduct Rooibos harvesting	Level 2	4	Draft - Prep for P Comment
core	123165 Demonstrate an understanding of the Rooibos industry	Level 2	2	Draft - Prep for P Comment
core	123170 Collect and treat Rooibos seed	Level 2	4	Draft - Prep for P Comment
core	123172 Apply health and safety in Rooibos production and processing	Level 2	7	Draft - Prep for P Comment
core	123173 Demonstrate knowledge of hygiene practices in Rooibos production and processing	Level 2	6	Draft - Prep for P Comment
Elective	116060 Utilise and perform minor repair and maintenance tasks on implements, equipment and infrastructure	Level 2	5	Registered
Elective	116065 Store and control agrochemical products effectively and responsibly	Level 2	4	Registered
Elective	116066 Operate and maintain specific irrigation systems	Level 2	3	Registered
Elective	116113 Explain principles of human resources management and practices in agriculture	Level 2	2	Registered
Elective	116820 Drive a tractor	Level 2	10	Registered
Elective	123156 Conduct post harvest cutting of Rooibos	Level 2	6	Draft - Prep for P Comment
Elective	123160 Bruise, ferment and dry Rooibos cuttings	Level 2	6	Draft - Prep for P Comment
Elective	123167 Monitor the quality assurance in Rooibos processing	Level 2	8	Draft - Prep for P Comment
Elective	8000 Applying basic business principles	Level 3	9	Reregistered
Fundamental	7469 Use mathematics to investigate and monitor the financial aspects of personal and community life	Level 2	2	Reregistered
Fundamental	7480 Demonstrate understanding of rational and irrational numbers and number systems	Level 2	3	Reregistered
Fundamental	8494 Demonstrate an understanding of HIV/AIDS and its implications	Level 2	4	Reregistered
Fundamental	8962 Maintain and adapt oral communication	Level 2	5	Reregistered
Fundamental	8963 Access and use information from texts	Level 2	5	Reregistered
Fundamental	8964 Write for a defined context	Level 2	5	Reregistered
Fundamental	8965 Respond to literary texts	Level 2	5	Reregistered
Fundamental	9007 Work with a range of patterns and functions and solve problems	Level 2	5	Reregistered
Fundamental	9008 Identify, describe, compare, classify, explore shape and motion in 2- and 3-dimensional shapes in different contexts	Level 2	3	Reregistered
Fundamental	9009 Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems	Level 2	3	Reregistered



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

1

SAQA US ID	UNIT STANDARD TITLE		
123154	Propagate rooibos from seed		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	6	Level 2	Regular

SPECIFIC OUTCOME 1

Describe the selection and preparation of a seedbed for the sowing of Rooibos seeds.

SPECIFIC OUTCOME 2

Sow Rooibos seeds manually in prepared seedbeds.

SPECIFIC OUTCOME 3

Apply water to the seedbeds after sowing.

SPECIFIC OUTCOME 4

Maintain the seedbed environment and monitor the germination process.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

2

SAQA US ID	UNIT STANDARD TITLE		
123156	Conduct post harvest cutting of Rooibos		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	6	Level 2	Regular

SPECIFIC OUTCOME 1

Apply the relevant safety regulations for the operation of the cutting machines.

SPECIFIC OUTCOME . 2

Conduct the preparation and preventative maintenance procedures on the cutting machines.

SPECIFIC OUTCOME 3

Operate a Rooibos cutting machine.

SPECIFIC OUTCOME 4

Convey and transfer the cut product from the cutting mill.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

3

Provide care for rooibos seedlings

SAQA US ID	UNIT STANDARD TITLE		
123157	Provide care for rooibos seedlings		
SCHOOL NAME	COURSE ID	PROVIDER NAME	
SGB for Secondary Agriculture Processing	1		
UNIT			
Reg 1	Agriculture and Conservation	Secondary Agriculture	
ASSESSMENT	LEVEL	STANDARD TYPE	
Undefined	4	2	

SPECIFIC OUTCOME 1

Maintain the environment of newly germinated seedlings.

SPECIFIC OUTCOME 2

Conduct the 'growing on' procedures for Rooibos seedlings.

SPECIFIC OUTCOME 3

Demonstrate knowledge of pest controls for the seedlings.

SPECIFIC OUTCOME 4

Demonstrate knowledge of hardening off the seedlings in preparation for transplanting.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

4

Demonstrate an understanding of Rooibos culture practices

SAQA US ID	UNIT STANDARD TITLE		
123158	Demonstrate an understanding of Rooibos culture practices		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	12	Level 2	Regular

SPECIFIC OUTCOME 1

Describe the unique features of the Rooibos plant.

SPECIFIC OUTCOME 2

Show an understanding of the soil conditions that are conducive to growing Rooibos.

SPECIFIC OUTCOME 3

Describe suitable climatic conditions for the successful cultivation of Rooibos.

SPECIFIC OUTCOME 4

Show an understanding of the pest control practices that are necessary to ensure a viable Rooibos crop.

SPECIFIC OUTCOME 5

Demonstrate an understanding of the necessity for weed control and the eradication practices that are conducted.

SPECIFIC OUTCOME 6

Describe the crop rotation processes for Rooibos production.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

5

SAQA US ID	UNIT STANDARD TITLE		
123159	Conduct soil preparation and transplant rooibos seedlings		
SGB NAME		ORGANISING FIELD ID	PROVIDER NAME
SGB for Secondary Agriculture: Processing		1	
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	5	Level 2	Regular

SPECIFIC OUTCOME 1

Demonstrate an understanding of the soil preparation practices that are necessary for the transplanting of Rooibos seedlings.

SPECIFIC OUTCOME 2

Remove Rooibos seedlings from the nursery and transport these to the prepared area.

SPECIFIC OUTCOME 3

Demonstrate an understanding of the Rooibos planting practices.

SPECIFIC OUTCOME 4

Provide initial care to the young Rooibos plants.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

6

SAQA US ID	UNIT STANDARD TITLE	
123160	Bruise, ferment and dry Rooibos cuttings	
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME
SGB for Secondary Agriculture: Processing	1	
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular	Agriculture and Nature Conservation	Secondary Agriculture
ABET BAND [CREDITS]	NQF LEVEL	UNIT STANDARD TYPE
Undefined 6	Level 2	Regular

SPECIFIC OUTCOME 1

Understand the practices used in the formation of fermentation heaps.

SPECIFIC OUTCOME 2

Bruise and prepare the cut material for fermentation.

SPECIFIC OUTCOME 3

Demonstrate an understanding of the fermentation process.

SPECIFIC OUTCOME 4

Dry Rooibos.

SPECIFIC OUTCOME 5

Collect Rooibos from the fermentation court.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

7

SAQA US ID	UNIT STANDARD TITLE		
123161	Receive and grade rooibos		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQE LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 2	Regular

Show an understanding of the practices and the procedures that are used in the receiving of Rooibos material.

SPECIFIC OUTCOME 2

Demonstrate an understanding of the specifications that are used in assessing the quality of raw Rooibos.

SPECIFIC OUTCOME 3

Demonstrate the sampling of the raw Rooibos for grading.

SPECIFIC OUTCOME 4

Show an understanding of the sensory testing of the Rooibos samples.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

8

Conduct Rooibos harvesting

SAQA US ID	UNIT STANDARD TITLE		
123162	Conduct Rooibos harvesting		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 2	Regular

SPECIFIC OUTCOME 1

Apply safety principles and practices when harvesting.

SPECIFIC OUTCOME 3

Show an understanding of the hygiene practices that are necessary when harvesting.

SPECIFIC OUTCOME 3

Describe the conditions that influence the timing of the Rooibos harvesting.

SPECIFIC OUTCOME 4

Demonstrate an understanding of the practices and techniques that are employed in the harvesting of Rooibos.

SPECIFIC OUTCOME 5

Show an understanding of the post harvesting pest control practices.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

9

Screen and blend Rooibos

SAQA US ID	UNIT STANDARD TITLE		
123163	Screen and blend Rooibos		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	5	Level 2	Regular

SPECIFIC OUTCOME 1

Select batches of Rooibos for screening.

SPECIFIC OUTCOME 2Screen ~~the~~ selected batches of Rooibos.**SPECIFIC OUTCOME 3**

Silo various grades of Rooibos.

SPECIFIC OUTCOME 4

Blend Rooibos to a client's specific requirements.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

14

Collect and treat Rooibos seed

SAQA US ID	UNIT STANDARD TITLE		
123170	Collect and treat Rooibos seed		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 2	Regular

SPECIFIC OUTCOME 1

Identify the characteristics of Rooibos seed and the harvesting season.

SPECIFIC OUTCOME 2

Collect Rooibos seed bearing material.

SPECIFIC OUTCOME 3

Clean the collected Rooibos seed material.

SPECIFIC OUTCOME 4

Sanitize the Rooibos seeds.

SPECIFIC OUTCOME 5

Scarify and apply a protective fungicidal treatment to the seed.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

15

Apply health and safety in Rooibos production and processing

SAQA US ID	UNIT STANDARD TITLE		
123172	Apply health and safety in Rooibos production and processing		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	7	Level 2	Regular

SPECIFIC OUTCOME 1

Explain the relevant sections of the health and safety act that affect workers in a Rooibos production facility.

SPECIFIC OUTCOME 2

Show an understanding of the duties and responsibilities of employers to provide a safe and healthy working environment in a Rooibos production / processing facility.

SPECIFIC OUTCOME 3

Explain the duties and responsibilities of employees in a Rooibos production / processing facility.

SPECIFIC OUTCOME 4

Load and transport materials and equipment safely.

SPECIFIC OUTCOME 5

Understand the action to be taken in an emergency situation.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

16

SAQA US ID	UNIT STANDARD TITLE		
123173	Demonstrate knowledge of hygiene practices in Rooibos production and processing		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDIT	NQF LEVEL	UNIT STANDARD TYPE

SPECIFIC OUTCOME 2

Explain effects of the common types of contamination on Rooibos.

SPECIFIC OUTCOME 3

Understand the necessity of applying personal hygiene in Rooibos processing.

SPECIFIC OUTCOME 4

Describe the procedure that will ensure the thorough cleaning of equipment.

SPECIFIC OUTCOME 5

Understand the role that disinfectants play in sanitizing.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

17

Despatch packaged Rooibos products

SAQA US ID	UNIT STANDARD TITLE		
123251	Despatch packaged Rooibos products		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	3	Level 2	Regular

SPECIFIC OUTCOME 1

Demonstrate an understanding of the stock and quality controls for the various Rooibos products.

SPECIFIC OUTCOME 2

Describe the store keeping practices for "finished" Rooibos products.

SPECIFIC OUTCOME 3

Show an understanding of the administrative processes that are involved in the dispatching of Rooibos products.

SPECIFIC OUTCOME 4

Demonstrate an understanding of the product handling and loading practices that are used in the storage and dispatch of Rooibos products.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

10

Pasteurise, dry and bag Rooibos

SAQA US ID	UNIT STANDARD TITLE		
123164	Pasteurise, dry and bag Rooibos		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing			
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	8	Level 2	Regular

SPECIFIC OUTCOME 1

Demonstrate knowledge of health and safety practices in the pasteurising, drying and bagging of Rooibos.

SPECIFIC OUTCOME 2

Maintain the pasteurising steam temperature within the prescribed tolerances.

SPECIFIC OUTCOME 3

Monitor the pasteurization exposure of Rooibos.

SPECIFIC OUTCOME 4

Demonstrate an understanding of the post pasteurization drying of Rooibos.

SPECIFIC OUTCOME 5

Maintain a hygienic environment in the post pasteurization processing areas.

SPECIFIC OUTCOME 6

Bag the Rooibos processed product.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

11

Demonstrate an understanding of the Rooibos industry

SAQA US ID	UNIT STANDARD		
123165	Demonstrate an understanding of the Rooibos industry		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	2	Level 2	Regular

SPECIFIC OUTCOME 1

Outline the history and growth of the Rooibos industry.

SPECIFIC OUTCOME 2

Demonstrate a knowledge of the unique characteristics of Rooibos.

SPECIFIC OUTCOME 3

Show an understanding of the supply chain within the Rooibos Industry.

SPECIFIC OUTCOME 4

Understand the importance of ongoing research and product development of Rooibos.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

12

SAQA US ID	UNIT STANDARD TITLE		
123167	Monitor the quality assurance in Rooibos processing		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	■		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	8	Level 2	Regular

SPECIFIC OUTCOME 1

Demonstrate an understanding of the role that a quality assurance system plays in maintaining and improving the quality of Rooibos products.

SPECIFIC OUTCOME 2

Understand the importance of pre-requisite programmes for the achievement of Quality Assurance in Rooibos production.

SPECIFIC OUTCOME 3

Demonstrate an understanding of the composition and operation of the quality assurance programs.

SPECIFIC OUTCOME 4

Identify the areas in the process that pose the highest risk to compromising quality.

SPECIFIC OUTCOME 5

Demonstrate an understanding of the procedures that are necessary to sustain a quality assurance system in Rooibos processing.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

13

SAQA US ID	UNIT STANDARD TITLE		
123169	Flavour and pack Rooibos to clients' specifications		
SGB NAME		ORGANISING FIELD ID	PROVIDER NAME
SGB for Secondary Agriculture: Processing		1	
UNIT STANDARD TYPE		ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Agriculture and Nature Conservation	Secondary Agriculture
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	6	Level 2	Regular

SPECIFIC OUTCOME 1

Apply the relevant health, safety and hygiene practices in the flavouring and packing of Rooibos.

SPECIFIC OUTCOME 2

Demonstrate an understanding of the Rooibos flavouring processes.

SPECIFIC OUTCOME 3

Set and operate the packaging machines.

SPECIFIC OUTCOME 4

Maintain production and quality assurance records.