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GOVERNMENT NOTICE

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

No. 120

10 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

Forestry

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

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the qualification and unit standards. The qualification and unit standards can be accessed via the SAQA web-site at www.saqqa.org.za. Copies may also be obtained from the Directorate 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 9 March 2006*. All correspondence should be marked **Standards Setting – SGB for Forestry** and addressed to

The Director: Standards Setting and Development
SAQA

Attention: Mr. D Mphuthing

Postnet Suite 248

Private Bag X06

Waterkloof

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S BHIKHA
DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION:

National Certificate: Forestry: Silviculture

SAQA QUAL ID		QUALIFICATION TITLE	
50266		National Certificate: Forestry: Silviculture	
SGB NAME		ORGANISING FIELD ID	PROVIDER NAME
SGB Forestry		1	
QUAL TYPE		ORGANISING FIELD DESCRIPTION	SUBFIELD
National Certificate		Agriculture and Nature Conservation	Forestry and Wood Technology
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUALIFICATION CLASS
Undefined	123	Level 3	Regular-Unit Stds Based

PURPOSE AND RATIONALE OF THE QUALIFICATION

Purpose:

This qualification will be useful to those who help to establish, maintain and protect forests within a silvicultural context, and who seek recognition for essential skills in forestry operations. The qualification recognises fairly specialised work skills with some need to supervise, instruct and organise others within routine contexts and according to given procedures. However, in most situations, the learners will be working under supervision themselves.

Learners will be able to enhance safety and productivity in silviculture, and this qualification provides evidence of a proven ability to:

- > Communicate in a variety of ways.
- > Use mathematics in real life situations.
- > Supervise and participate in wildfire suppression.
- > Clear trees.
- > Participate in silviculture-related activities.
- > Supervise silviculture operations.

Depending in electives chosen, recipients will be able to:

- > Provide fire protection support.
- > Participate in plantation establishment and maintenance.

The qualification is designed to be flexible and accessible so that people are able to demonstrate the competencies required to work safely and effectively in silvicultural operations.

Rationale:

The majority of the learners for this qualification are likely to be working in the forestry sub-field. The qualification will give them the opportunity to balance their practical skills with the essential operations associated with efficient and safe silviculture operations. There is also a critical need in the industry to identify and recognise people who are able to conduct the essential operations associated with efficient and safe silviculture operations.

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 2.

Recognition of Prior Learning

This qualification can be achieved wholly or in part through recognition of prior learning in terms of the assessment criteria defined for the qualification and related unit standards.

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

All such evidence will be judged in accordance with the general principles of assessment.

Access to the qualification:

The qualification is open to all learners who are in possession of an entry-level General Forestry qualification or who have completed grade 10 or equivalent within the formal schooling sector.

QUALIFICATION RULES

- > Fundamental - all 36 credits in the Fundamental category are required.
- > Core - all 81 credits in the Core category are required.
- > Electives - a minimum of 6 credits is required from the possible 27 credits in the Electives category.

EXIT LEVEL OUTCOMES

1. Supervise and participate in wildfire suppression.
2. Clear trees.
3. Participate in and supervise silviculture-related activities.

Critical Cross-Field Outcomes

This qualification addresses the following critical cross-field outcomes, as detailed in the associated unit standards:

- > Identifying and solving problems in which responses indicate that responsible decisions using critical and creative thinking have been made.
- > Working effectively with others as a member of a team, group, organisation or community.
- > Organising and managing oneself and one's activities responsibly and effectively.
- > Collecting, analysing, organising and critically evaluating information.
- > Communicating effectively using visual, mathematical and/or language skills in the modes of oral/written persuasion.
- > Using science and technology effectively and critically, showing responsibility towards the environment and health of others.
- > Demonstrating and understanding of the world as a set of related systems by recognising that problem-solving contexts do not exist in isolation.

Learning programmes directed towards this qualification will also contribute to the full personal development of each learner and the social and economic development of the society at large, by making individuals aware of the importance of:

- > Reflecting on and exploring a variety of strategies to learn more effectively.
- > Participating as responsible citizens in the life of local, national and global communities.
- > Being culturally and aesthetically sensitive across a range of social contexts.
- > Exploring education and career opportunities; and developing entrepreneurial opportunities.

ASSOCIATED ASSESSMENT CRITERIA

1.
 - > Supervision is carried out in line with prepared plans and drills.
 - > Fire protection support is efficient and effective.
 - > Actions contribute to the successful and safe suppression of wildfires.
 - > Wildfires are suppressed or contained through effective leadership of a strike attack force.

- 2.
- > Trees are cleared safely and according to production schedules.
 - > Equipment is used as per manufacturer's operating requirements and industry safety standards.
 - > Felling, cutting, debranching and cross-cutting techniques comply with industry standards.

- 3.
- > Activities in plantations are established and maintained according to company requirements.
 - > Herbicides are applied in keeping with silviculture requirements.
 - > Activities are supervised according to plan.

Integrated assessment:

Assessment is to take place according to the detailed specifications indicated in the unit standards associated with each exit level outcome. Over and above the achievement of the specified unit standards, evidence of integration will be required as per the broad assessment criteria specified above, all within the context of an active workplace environment, dealing with divergent and "random" demands related to these work operations.

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

Assessors should take note of the following general principles when designing and conducting assessments:

> Focus the initial assessment activities on gathering evidence in terms of the main outcomes expressed in the titles of the unit standards to ensure assessment is integrated rather than fragmented. Remember that we want to declare the person competent in terms of the qualification purpose. Where assessment at title level is unmanageable, then the assessment should be focussed on each specific outcome, or groups of specific outcomes. Take special note of the need for integrated assessment.

> Ensure that assessment is gathered across the entire range, wherever it applies. Assessment activities should be as close to the real performance as possible, and where simulations or role-players are used, there should be supporting evidence to prove that the candidate is able to perform in the real situation.

> All assessments should be conducted in accordance with the following universally accepted principles of assessment.

INTERNATIONAL COMPARABILITY

This qualification compares favourably to the New Zealand qualification: National Certificate in Forestry (Establishment and Silviculture) (Level 3), which has the following purpose:

"This qualification recognises the primary skills of forest silviculture that determine the quality of the forest crop. The compulsory unit standards also cover the skills of fire control. The elective list includes unit standards that recognise the skills required for the quality and production performance of the main silviculture operations".

The unit standards in the NZQA qualification that inform and compare favourably to the unit standards in the SA qualification in terms of coverage and level are:

NZQA ID; Title; Level; Credit

- > 1232-Demonstrate knowledge of forest planting site preparation; Level 2; 4 Credits
- > 6950-Demonstrate knowledge of thinning plantation trees; Level 2; 3 Credits
- > 6951-Demonstrate knowledge of selecting plantation trees; Level 2; 4 Credits
- > 6952-Select plantation trees for a forest crop; Level 3; 5 Credits
- > 1241-Demonstrate knowledge of plantation forest establishment and silviculture; Level 2; 4 Credits
- > 3270-Establish and deliver water supplies for fire fighting; Level 2; 3 Credits
- > 3278-Demonstrate knowledge of command and control structure of an emergency service provider; Level 1; 2 Credits
- > 20386-Operate portable pumps for fire fighting; Level 3; 3 Credits
- > 3285-Demonstrate knowledge of protection of personal safety at vegetation fires; Level 3; 3 Credits

- > 3286-Control vegetation fires using dry fire fighting techniques; Level 3; 2 Credits
- > 3287-Suppress vegetation fires with water and with water with additives; Level 3; 2 Credits
- > 43-Maintain a chainsaw; Level 3; 5 Credits
- > 6916-Demonstrate knowledge of the Code of Practice relating to chainsaw use; Level 2; 5 Credits
- > 6917-Operate a chainsaw; Level 3; 5 Credits
- > 1243-Prune plantation trees from the ground; Level 4; 5 Credits
- > 1245-Prune plantation trees from off the ground; Level 4; 8 Credits
- > 1247-Thin plantation trees to waste (early thinning); Level 4; 5 Credits
- > 17763-Demonstrate knowledge of tree felling; Level 3; 5 Credits
- > 17766-Fell trees safely using a chainsaw and basic techniques; Level 3; 5 Credits
- > 823-Demonstrate knowledge of agrichemicals; Level 2; 5 Credits
- > 826-Demonstrate knowledge of principles involved in agrichemical use; Level 3; 3 Credits
- > 5059-Demonstrate understanding of safety with agrichemicals; Level 1; 1 Credits
- > 6244-Store agrichemicals; Level 4; 4 Credits

The investigation into UK-based qualifications revealed a close correspondence in the key areas of the qualification, although the competencies in the UK are spread across a number of Forestry-related qualifications as follows:

NPTC Level 2 NVQ in Forestry

- > Unit - H/101/5326 - Unit T09 - Select, Mark and Measure Trees.
- > Unit - K/101/5330 - Unit T13 - Fell Trees Mechanically.

NPTC Level 2 Certificate of Competence in Chainsaw and Related Operations

- > Unit - Y/101/7901 - Unit CS30.2 - On-Site Preparation and Basic Cross Cutting.

NPTC Level 2 National Certificate in Horticulture

- > Unit - A/101/9933 - Unit 31 - Silviculture and Habitat Management.

The international comparison served to endorse the essential design of this qualification, with the differences being accounted for by the labour-intensive nature of forestry within the South African context.

ARTICULATION OPTIONS

This qualification lends itself to both vertical and horizontal articulation. These possibilities ensure both mobility and progression for the learner in other fields of learning such as the Timber Harvesting industry.

Horizontal articulation possibilities:

- > National Certificate: Timber Harvesting at NQF Level 3, ID 48988

Vertical articulation possibilities:

- > National Certificate: Plant Production at NQF Level 4, ID 49009
- > National Certificate: Farming at NQF Level 4, ID 20290

MODERATION OPTIONS

Any institution offering learning or assessment in terms of this qualification or associated 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 relevant qualification and the agreed ETQA procedures.

CRITERIA FOR THE REGISTRATION OF ASSESSORS

Assessors must:

- > Be registered as an assessor by the relevant ETQA.
- > Have experience or in depth knowledge of forestry industry, specifically as it relates to silviculture.
- > Hold a qualification in Forestry at NQF Level 4 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	117049 Demonstrate knowledge of basic safety in forestry operations	Level 2	1	Registered
Core	117061 Debranch felled trees using a chainsaw in a production situation	Level 2	3	Registered
Core	117062 Fell trees with a chainsaw using the standard technique and felling levers	Level 2	2	Registered
Core	117069 Cross-cut felled trees using a chainsaw in a production situation	Level 2	2	Registered
Core	123149 Communicate using a two-way radio system	Level 2	2	Draft - Prep for P Comment
Core	123233 Cut felled timber using a chainsaw and maintain chainsaw	Level 2	4	Draft - Prep for P Comment
Core	123238 Conduct maintenance on herbicide applicators	Level 2	2	Draft - Prep for P Comment
Core	117085 Conduct basic forestry map reading	Level 3	2	Registered
Core	123234 Control activities at an airstrip during aerial wildfire suppression	Level 3	2	Draft - Prep for P Comment
Core	123242 Organize forestry work team activities	Level 3	5	Draft - Prep for P Comment
Core	11473 Manage individual and team performance	Level 4	8	Reregistered
Core	120379 Work as a project team member	Level 4	8	Registered
Core	123231 Manage a crew during wildfire suppression	Level 4	7	Draft - Prep for P Comment
Core	123232 Lead a strike attack force to contain or extinguish a wildfire	Level 4	4	Draft - Prep for P Comment
Core	123235 Manage a controlled burn	Level 4	4	Draft - Prep for P Comment
Core	123237 Control forestry work team activities	Level 4	5	Draft - Prep for P Comment
Core	123240 Demonstrate knowledge of silviculture in commercial forestry	Level 4	20	Draft - Prep for P Comment
Elective	123236 Perform fire-lookout duties	Level 2	2	Draft - Prep for P Comment
Elective	123239 Manage a chemical store on a forestry plantation	Level 2	4	Draft - Prep for P Comment
Elective	123241 Select and mark trees for thinning in commercial forestry	Level 2	4	Draft - Prep for P Comment
Elective	123243 Operate brush-cutters in commercial forestry	Level 2	5	Draft - Prep for P Comment
Elective	123245 Scale tree lengths into log assortments in a production situation	Level 2	2	Draft - Prep for P Comment
Elective	123230 Perform administrative functions during wildfire suppression	Level 4	4	Draft - Prep for P Comment
Elective	123244 Operate an electronic fire surveillance facility	Level 4	6	Draft - Prep for P Comment
Fundamental	7456 Use mathematics to investigate and monitor the financial aspects of personal, business and national issues	Level 3	5	Reregistered
Fundamental	8968 Accommodate audience and context needs in oral communication	Level 3	5	Reregistered
Fundamental	8969 Interpret and use information from texts	Level 3	5	Reregistered
Fundamental	8970 Write texts for a range of communicative contexts	Level 3	5	Reregistered
Fundamental	8971 Analyse and respond to a variety of literary texts	Level 3	5	Reregistered
Fundamental	9010 Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations	Level 3	2	Reregistered
Fundamental	9012 Investigate life and work related problems using data and probabilities	Level 3	5	Reregistered
Fundamental	9013 Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	Level 3	4	Reregistered



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

1

Perform administrative functions during wildfire suppression

SAQA US ID	UNIT STANDARD TITLE		
123230	Perform administrative functions during wildfire suppression		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 4	Regular

SPECIFIC OUTCOME 1

Record relevant information.

SPECIFIC OUTCOME 2

Communicate relevant information.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

2

Manage a crew during wildfire suppression

SAQA US ID	UNIT STANDARD TITLE		
123231	Manage a crew during wildfire suppression		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	7	Level 4	Regular

SPECIFIC OUTCOME 1

Explain the terms, concepts and goals for managing the wildfire problem in Southern Africa.

SPECIFIC OUTCOME 2

Interpret the three dimensions of the wildfire Management plan.

SPECIFIC OUTCOME 3

Carry out pre-fire procedures.

SPECIFIC OUTCOME 4

Respond to a fire call out.

SPECIFIC OUTCOME 5

Carry out post fire procedures.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

3

Lead a strike attack force to contain or extinguish a wildfire

SAQA US ID	UNIT STANDARD TITLE		
123232	Lead a strike attack force to contain or extinguish a wildfire		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 4	Regular

SPECIFIC OUTCOME 1

Prepare for strike attack on wildfires.

SPECIFIC OUTCOME 2

Control strike-attack resources for wildfire suppression.

SPECIFIC OUTCOME 3

Demobilise strike attack resources.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

4

Cut felled timber using a chainsaw and maintain chainsaw

SAQA US ID	UNIT STANDARD TITLE		
123233	Cut felled timber using a chainsaw and maintain chainsaw		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 2	Regular

SPECIFIC OUTCOME 1

Demonstrate knowledge of chainsaw parts and basic mechanics.

SPECIFIC OUTCOME 2

Demonstrate knowledge of safety during chainsaw use.

SPECIFIC OUTCOME 3

Prepare and start a chainsaw.

SPECIFIC OUTCOME 4

Cut felled timber with a chainsaw.

SPECIFIC OUTCOME 5

Carry out periodic maintenance on a chainsaw.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

5

Control activities at an airstrip during aerial wildfire suppression

SAQA US ID	UNIT STANDARD TITLE		
123234	Control activities at an airstrip during aerial wildfire suppression		
SGB NAME		ORGANISING FIELD ID	PROVIDER NAME
SGB Forestry		1	
UNIT STANDARD TYPE		ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Agriculture and Nature Conservation	Forestry and Wood Technology
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	2	Level 3	Regular

SPECIFIC OUTCOME 1

Prepare an airstrip used for aerial fire suppression.

SPECIFIC OUTCOME 2

Apply the standard procedures and regulations pertaining to an airstrip used for aerial fire suppression.

SPECIFIC OUTCOME 3

Apply administrative requirements pertaining to an airstrip used for aerial fire suppression.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

6

Manage a controlled burn

SAQA US ID	UNIT STANDARD TITLE		
123235	Manage a controlled burn		
SGB NAME		ORGANISING FIELD ID	PROVIDER NAME
SGB Forestry		1	
UNIT STANDARD TYPE		ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Agriculture and Nature Conservation	Forestry and Wood Technology
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 4	Regular

SPECIFIC OUTCOME 1

Plan for a controlled burn.

SPECIFIC OUTCOME 2

Lead a team conducting a controlled burning operation.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

7

Perform fire-lookout duties

SAQA US ID	UNIT STANDARD TITLE		
123236	Perform fire-lookout duties		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	2	Level 2	Regular

SPECIFIC OUTCOME 1

Locate and report incidents using standard surveillance techniques.

SPECIFIC OUTCOME 2

Monitor and report equipment condition and maintain site.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

8

Control forestry work team activities

SAQA US ID	UNIT STANDARD TITLE		
123237	Control forestry work team activities		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	5	Level 4	Regular

SPECIFIC OUTCOME 1

Monitor activities through the use of control documentation.

SPECIFIC OUTCOME 2

Control quality, costs, environment, safety and personnel issues.

SPECIFIC OUTCOME 3

Control production.

SPECIFIC OUTCOME 4

Control the logistics of vehicles, stores and equipment.

SPECIFIC OUTCOME 5

Control the maintenance and cleaning of vehicles and equipment.

SPECIFIC OUTCOME 6

Report productivity and progress.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

9

Conduct maintenance on herbicide applicators

SAQA US ID	UNIT STANDARD TITLE		
123238	Conduct maintenance on herbicide applicators		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	2	Level 2	Regular

SPECIFIC OUTCOME 1

Prepare to conduct maintenance.

SPECIFIC OUTCOME 2

Conduct maintenance.

SPECIFIC OUTCOME 3

Conduct preventative maintenance.

SPECIFIC OUTCOME 4

Administer applicator maintenance.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

10

Manage a chemical store on a forestry plantation

SAQA US ID	UNIT STANDARD TITLE		
123239	Manage a chemical store on a forestry plantation		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 2	Regular

SPECIFIC OUTCOME 1

Classify hazardous chemical substances (HCS).

SPECIFIC OUTCOME 2

Maintain health and safety in a chemical store.

SPECIFIC OUTCOME 3

Maintain health and safety of an individual.

SPECIFIC OUTCOME 4

Administer all prescribed documents.

SPECIFIC OUTCOME 5

Limit damage and/or exposure to property and/or individual in the case of an emergency.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

11

Demonstrate knowledge of silviculture in commercial forestry

SAQA US ID	UNIT STANDARD TITLE		
123240	Demonstrate knowledge of silviculture in commercial forestry		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	20	Level 4	Regular

SPECIFIC OUTCOME 1

Explain the purpose of silviculture practices in commercial forestry.

SPECIFIC OUTCOME 2

Explain the influence of geographical areas and climatic conditions in South Africa on commercial forestry.

SPECIFIC OUTCOME 3

Differentiate between the main tree **genuses** and explain their purpose in commercial forestry.

SPECIFIC OUTCOME 4

Explain the purpose and methods of site preparation methods in commercial forestry.

SPECIFIC OUTCOME 5

Explain planting methods and their specific applications.

SPECIFIC OUTCOME 6

Explain weeding methods and their applications.

SPECIFIC OUTCOME 7

Explain pruning methods and their applications.

SPECIFIC OUTCOME 8

Explain marking of thinnings in commercial forestry.

SPECIFIC OUTCOME 9

Explain forest protection.

SPECIFIC OUTCOME 10

Explain improved generic material and scientific advancement.

SPECIFIC OUTCOME 11

Explain fertilisers in commercial forestry.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

12

Select and mark trees for thinning in commercial forestry

SAQA US ID	UNIT STANDARD TITLE		
123241	Select and mark trees for thinning in commercial forestry		
SGB NAME		ORGANISING FIELD ID	PROVIDER NAME
SGB Forestry		1	
UNIT STANDARD TYPE		ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Agriculture and Nature Conservation	Forestry and Wood Technology
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 2	Regular

SPECIFIC OUTCOME 1

Prepare for selection and marking of trees for thinning.

SPECIFIC OUTCOME 2

Select and mark trees for a specific thinning.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

13

Organize forestry work team activities

SAQA US ID	UNIT STANDARD TITLE		
123242	Organize forestry work team activities		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	5	Level 3	Regular

SPECIFIC OUTCOME 1

Plan and prepare for work task.

SPECIFIC OUTCOME 2

Optimize vehicle logistics.

SPECIFIC OUTCOME 3

Organize vehicle and equipment maintenance and cleaning.

SPECIFIC OUTCOME 4

Solve problems and demonstrate flexibility in reallocating activities in adverse weather conditions.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

14

Operate brush-cutters in commercial forestry

SAQA US ID	UNIT STANDARD TITLE		
123243	Operate brush-cutters in commercial forestry		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	5	Level 2	Regular

SPECIFIC OUTCOME 1

Prepare to operate the brushcutter.

SPECIFIC OUTCOME 2

Demonstrate operating techniques and methods of brush cutting.

SPECIFIC OUTCOME 3

Maintain equipment.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

15

Operate an electronic fire surveillance facility

SAQA US ID	UNIT STANDARD TITLE		
123244	Operate an electronic fire surveillance facility		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	6	Level 4	Regular

SPECIFIC OUTCOME 1

Locate incidents by applying standard electronic surveillance techniques.

SPECIFIC OUTCOME 2

Record and report relevant information.

SPECIFIC OUTCOME 3

Monitor and maintain operations centre and equipment.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

16

Scale tree lengths into log assortments in a production situation

SAQA US ID	UNIT STANDARD TITLE		
123245	Scale tree lengths into log assortments in a production situation		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Forestry	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	2	Level 2	Regular

SPECIFIC OUTCOME 1

Demonstrate knowledge of factors influencing efficiencies in scaling tree lengths into log assortments.

SPECIFIC OUTCOME 2

Prepare for scaling.

SPECIFIC OUTCOME 3

Scale tree lengths into log assortments to meet specifications.