

REGISTERED QUALIFICATION:

National Certificate: Plant Production

SAQA QUAL ID

48972

QUALIFICATION TITLE

National Certificate: Plant Production

MINIMUM CREDITS

120

NQF LEVEL

Level 1

QUAL CLASS

Regular-Unit Stds Based

Rationale:

This qualification provides learners the opportunity to gain a qualification in Plant Production. The range of typical learners that will enter this qualification will vary and includes:

- New entrants in farming who wish to progress to the level of Junior Labourer within farming operations in Plant Production;
- New entrants that wishes to enter the sector as farmers;
- Learners in possession of different levels of practical experience in farming operations, which will be assessed and RPL`ed;
- Possible candidates for promotion identified by the community as leaders.
- Learners may come from both genders.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

It is assumed that a learner entering a programme leading to this qualification has achieved numeracy, literacy and communication equivalent to ABET 3.

Recognition of Prior Learning:

This qualification may be achieved in part or in whole through the recognition of prior learning. Credit will be given to learning, which has already been acquired, through the appropriate process of assessment.

For example:

- Learners who have acquired skills and competencies in this qualification through for instance experience in the industry will be assessed against the unit standards the qualification comprises of prior to entering learning. Credits will be allocated to those unit standards and exit level outcomes in which the learner is found competent. The outstanding unit standards will then be sequenced according to an appropriate learning programme.
- Should a new entrant into the industry wish to enter this learning programme, recognition will be given to all appropriate learning acquired through the schooling system.
- In terms of fundamental unit standards, competencies could be acquired through life experience.

Any learner wishing to be directly assessed may arrange to do so, without attending further training or education. The assessor and learner will decide together on the most appropriate assessment route to take.

QUALIFICATION RULES

Fundamental

A minimum of 43 credits should be achieved in fundamental.

Core

64 credits should be achieved in core.

Elective

A minimum of 13 credits should be achieved in Elective, depending on the context of application of the unit standards.

UNIT STANDARDS:

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	116158	Apply basic agricultural enterprise selection principles	Level 1	2
Core	116166	Apply basic food safety practices	Level 1	1
Core	116160	Apply basic human resource management principles and practices applicable in an agricultural environment	Level 1	2
Core	116172	Apply elementary farm layout and infrastructure	Level 1	2
Core	116156	Collect agricultural data	Level 1	2
Core	116165	Define production and understand the basic activities of production / conversion in the agri-business environment	Level 1	2
Core	116199	Demonstrate a basic understanding of the structure and function of a plant in relation to its environment	Level 1	4
Core	116157	Demonstrate an understanding of the basic concepts of sustainable farming systems	Level 1	4
Core	116164	Demonstrate an understanding of the importance of marketing	Level 1	2
Core	116206	Fertilise soil and attend to basic plant nutrition	Level 1	5
Core	116163	Handle inputs and stock in agri-business	Level 1	2
Core	116201	Harvest agricultural crops	Level 1	5
Core	116159	Identify the need for capital and understand the need for the recording of the income and different costs in an agri-business	Level 1	2
Core	116168	Maintain basic water quality	Level 1	1
Core	116203	Manipulate plants	Level 1	5
Core	116202	Operate and maintain irrigation systems	Level 1	2
Core	116200	Plant the crop under supervision	Level 1	4
Core	116205	Propagate plants	Level 1	4
Core	116204	Recognise pests, diseases and weeds on crops	Level 1	5
Core	116167	Select, use and care for hand tools and basic equipment and infrastructure	Level 1	4
Core	116169	Understand how sustainable farming systems conserve natural resources	Level 1	4

Fundamental	7464	Analyse cultural products and processes as representations of shape, space and time	Level 1	2
Fundamental	13356	Assess the influence of the environment on sustainable livestock production	Level 1	4
Fundamental	7451	Collect, analyse, use and communicate numerical data	Level 1	2
Fundamental	7449	Critically analyse how mathematics is used in social, political and economic relations	Level 1	2
Fundamental	14084	Demonstrate an understanding of and use the numbering system	Level 1	1
Fundamental	7463	Describe and represent objects and the environment in terms of shape, space, time and motion	Level 1	2
Fundamental	12462	Engage in a range of speaking and listening interactions for a variety of purposes	Level 1	6
Fundamental	12471	Explore and use a variety of strategies to learn (revised)	Level 1	5
Fundamental	12469	Read and respond to a range of text types	Level 1	6
Fundamental	7461	Use maps to access and communicate information concerning routes, location and direction	Level 1	1
Fundamental	7447	Working with numbers in various contexts	Level 1	6
Fundamental	12470	Write for a variety of different purposes	Level 1	6
Elective	116209	Demonstrate an understanding of agri/ecotourism as a system at micro level	Level 1	5
Elective	116150	Identify and explain permaculture principles	Level 1	8
Elective	116148	Perform basic routine operations in a defined hydroponic context	Level 1	5
Elective	116149	Understand organic market requirements	Level 1	3

REGISTERED QUALIFICATION:

National Certificate: Plant Production

SAQA QUAL ID
48975

QUALIFICATION TITLE
National Certificate: Plant Production

MINIMUM CREDITS
120

NQF LEVEL
Level 2

QUAL CLASS
Regular-Unit Stds Based

Rationale:

This qualification provides learners the opportunity to gain a qualification in Plant Production. The range of typical learners that will enter this qualification will vary and includes:

- Junior farm labourers who wish to progress to the level of Labourer within farming operations in Plant Production;
- Farm owners, in possession of an equivalent qualification at NQF 1;
- Learners in possession of different levels of practical experience in farming operations, which will be assessed and RPL`ed;
- Possible candidates for promotion identified by the community as leaders.

- Learners may come from both genders.

The learner will engage in supervision and operational activities relevant to Plant Production.

Requests and expressions of need for this qualification, coming from the broad, but also specific farming communities (Plant Production) forms the basis for the development of this qualification.

This qualification will form the basis for learners to extend their learning into more specialised areas of plant production and provides the basis of the establishment of sustainable farming operations through the inclusion of a wide spectrum of competencies required by farmers in South Africa. Whilst technical production orientated competencies are ensured, other aspects such as agri-business and good agricultural practices are included in the range of competencies required by farmers in order to enable them to strive towards agricultural management standards and practices at higher levels.

Competent qualifying learners in this qualification will oversee quality agricultural products in Plant Production whereby enhancing the overall agricultural process and gain opportunities to access local, national and international agricultural markets.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

It is assumed that a learner entering a programme leading to this qualification has achieved numeracy, literacy and communication equivalent to NQF 1 and technical skills pertaining to agricultural activities equivalent to NQF 1.

QUALIFICATION RULES

Fundamental

- A minimum of 42 credits should be achieved in fundamental.

Core

- 72 credits should be achieved in core.

Elective

- A minimum of 6 credits should be achieved in Elective, depending on the context of application of the unit standards.

UNIT STANDARDS:

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	13356	Assess the influence of the environment on sustainable livestock production	Level 1	4
Core	116125	Apply crop protection and animal health products effectively and responsibly	Level 2	4
Core	116127	Apply layout principles for conservation and infrastructure	Level 2	5
Core	116126	Apply marketing principles in agriculture	Level 2	2
Core	116128	Apply plant manipulation methods	Level 2	4

Core	116121	Apply sustainable farming practices to conserve the ecological environment	Level 2	5
Core	116122	Control inputs and stock in agribusiness	Level 2	2
Core	116124	Control pests, diseases and weeds on all crops effectively and responsibly	Level 2	2
Core	116115	Define and understand production systems and production management	Level 2	2
Core	116119	Demonstrate an understanding of plant propagation	Level 2	3
Core	116113	Explain principles of human resources management and practices in agriculture	Level 2	2
Core	116111	Harvest agricultural crops: Procedures	Level 2	4
Core	116081	Identify and recognise factors influencing agricultural enterprise selection	Level 2	2
Core	116083	Illustrate and understand the basic layout of financial statements	Level 2	2
Core	116079	Monitor the establishment of a crop	Level 2	4
Core	116077	Monitor water quality	Level 2	3
Core	116066	Operate and maintain specific irrigation systems	Level 2	3
Core	116070	Operate and support a food safety and quality management system in the agricultural supply chain	Level 2	2
Core	116053	Understand basic soil fertility and plant nutrition	Level 2	5
Core	116057	Understand the structure and functions of a plant	Level 2	5
Core	116060	Utilise and perform minor repair and maintenance tasks on implements, equipment and infrastructure	Level 2	5
Fundamental	8963	Access and use information from texts	Level 2	5
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
Fundamental	7480	Demonstrate understanding of rational and irrational numbers and number systems	Level 2	3
Fundamental	8962	Maintain and adapt oral communication	Level 2	5
Fundamental	12444	Measure, estimate and calculate physical quantities and explore, describe and represent geometrical relationships in 2-dimensions in different life or work-place contexts	Level 2	3
Fundamental	116080	Monitor, collect and collate agricultural data	Level 2	2
Fundamental	116064	Recognise and identify the basic functions of the ecological environment	Level 2	4
Fundamental	8967	Use language and communication in occupational learning programmes	Level 2	5
Fundamental	7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	Level 2	2
Fundamental	9007	Work with a range of patterns and functions and solve problems	Level 2	5
Fundamental	8964	Write for a defined context	Level 2	5
Elective	116114	Harvest natural flora	Level 2	4
Elective	116109	Interpret and illustrate permaculture principles	Level 2	5
Elective	116076	Introduce organic certification and internal control systems	Level 2	2

Elective	116069	Participate in agri/ecotourism practices at both micro and meso levels to tourists	Level 2	4
Elective	116072	Perform routine operations and identify basic problems in hydroponic systems	Level 2	3
Elective	116065	Store and control agrochemical products effectively and responsibly	Level 2	4

REGISTERED QUALIFICATION:

National Certificate: Plant Production

SAQA QUAL ID **QUALIFICATION TITLE**
49052 National Certificate: Plant Production

MINIMUM CREDITS **NQF LEVEL** **QUAL CLASS**
120 Level 3 Regular-Unit Stds Based

Rationale:

This qualification provides learners the opportunity to gain a qualification in Plant Production. The range of typical learners that will enter this qualification will vary and includes:

- Farm operators who wish to progress to the level of supervisor within farming operations in Plant Production;
- Farm owners, in possession of an equivalent qualification at NQF 2;
- Learners in possession of different levels of practical experience in farming operations, which will be assessed and RPL`ed;
- Possible candidates for promotion identified by the community as leaders.
- Learners may come from both genders.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

It is assumed that a learner entering a programme leading to this qualification has achieved numeracy, literacy and communication equivalent to NQF 2 and technical skills pertaining to agricultural activities equivalent to NQF 2.

QUALIFICATION RULES

Fundamental

- A minimum of 48 credits should be achieved in fundamental. All unit standards listed are compulsory.

Core

- 64 credits should be achieved in core.

Elective

- A minimum of 8 credits should be achieved in Elective, depending on the context of application of the unit standards.

UNIT STANDARDS:

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	116125	Apply crop protection and animal health products effectively and responsibly	Level 2	4
Core	116275	Apply routine maintenance and servicing plans and procedures	Level 3	3
Core	116274	Assist in farm planning and layout for conservation and rainwater harvesting	Level 3	3
Core	116272	Demonstrate a basic understanding of the physiological functioning of the anatomical structures of the plant	Level 3	4
Core	116259	Explain application of marketing principles within an alternative and dynamic agricultural marketing environment	Level 3	3
Core	116237	Explain costing and the viability of an agri-business	Level 3	3
Core	116257	Explain human resource policies and procedures	Level 3	3
Core	116240	Explain store inputs categories, labeling and storage methods	Level 3	3
Core	116218	Explain the planning and scheduling of tasks in a production environment	Level 3	3
Core	116220	Explain the propagation of plants	Level 3	4
Core	116214	Interpret factors influencing agricultural enterprises and plan accordingly	Level 3	3
Core	116212	Maintain water quality parameters	Level 3	2
Core	116267	Manage soil fertility and plant nutrition	Level 3	5
Core	116268	Monitor and co-ordinate the harvesting of agricultural products	Level 3	4
Core	116271	Monitor and supervise a food safety and quality management system in the agricultural supply chain	Level 3	3
Core	116263	Monitor natural resource management practices	Level 3	4
Core	116265	Monitor pests, diseases and weeds on crops	Level 3	2
Core	116264	Monitor plant manipulation	Level 3	3
Core	116266	Monitor the operation and maintenance of irrigation systems	Level 3	3
Fundamental	8968	Accommodate audience and context needs in oral communication	Level 3	5
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
Fundamental	9013	Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	Level 3	4
Fundamental	116222	Incorporate basic concepts of sustainable farming systems into practical farm activities	Level 3	7
Fundamental	8969	Interpret and use information from texts	Level 3	5
Fundamental	9012	Investigate life and work related problems using data and probabilities	Level 3	5
Fundamental	116269	Supervise the collection of agricultural data	Level 3	5
Fundamental	8973	Use language and communication in occupational learning programmes	Level 3	5

Fundamental	7456	Use mathematics to investigate and monitor the financial aspects of personal, business and national issues	Level 3	5
Fundamental	8970	Write texts for a range of communicative contexts	Level 3	5
Elective	116258	Communicate agri/ecotourism principles and concepts effectively and adapt to needs	Level 3	5
Elective	116261	Introduction to organic certification and internal control systems	Level 3	4
Elective	116262	Maintain and support sustainable wild flower harvesting practices	Level 3	5
Elective	116221	Identify and apply permaculture principles	Level 4	5
Elective	116314	Produce crop in a hydroponic system	Level 4	4

REGISTERED QUALIFICATION:

National Certificate: Plant Production

SAQA QUAL ID	QUALIFICATION TITLE
49009	National Certificate: Plant Production

MINIMUM CREDITS	NQF LEVEL	QUAL CLASS
142	Level 4	Regular-Unit Stds Based

Rationale:

The range of typical learners that will enter this qualification will vary and includes:

- Farm operators who wish to progress to the level of junior farm manager;
- Learners in possession of different levels of practical experience in farming operations, which will be assessed and RPL`ed;
- School leavers (Gr. 12) from agricultural schools; and
- Learners may come from both genders.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

It is assumed that a learner entering a programme leading to this qualification has achieved numeracy, literacy and communication equivalent to NQF 2 and technical skills pertaining to agricultural activities equivalent to NQF 3.

The qualification is composed of Fundamental, Core and Elective learning components:

- Fundamental: 68 credits
- Core: 59 credits
- Elective: the learner must select a minimum of 15 credits from the Elective component

Total: 142 credits (minimum)

UNIT STANDARDS:

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	116301	Apply effective and responsible integrated pest, disease and weed control	Level 4	3
Core	116302	Assume co-responsibility and participation in human resource management	Level 4	3
Core	116295	Demonstrate a basic understanding of the physiological processes in plant growth and development	Level 4	3
Core	116297	Develop a harvesting plan for the specific agricultural crop	Level 4	3
Core	116290	Establish a plan for the monitoring, safe use and maintenance of equipment implements, technology and infrastructure	Level 4	3
Core	116293	Evaluate, adjust and implement factors influencing agricultural enterprises	Level 4	3
Core	116288	Execute sustainable resource use and quality control	Level 4	3
Core	116286	Give an overview of the industry structure	Level 4	2
Core	116278	Implement a food safety and quality management system in the agricultural supply chain	Level 4	3
Core	116303	Implement a natural resource management plan	Level 4	3
Core	116309	Implement integrated farm layout and site selection	Level 4	3
Core	116311	Implement soil fertility and plant nutrition practices	Level 4	3
Core	116305	Manage plant manipulation methods of an agricultural crop	Level 4	3
Core	116322	Manage water quality parameters	Level 4	3
Core	116291	Participate in the development and management of an agri business plan	Level 4	3
Core	116684	Participate in the development and management of an agricultural marketing plan	Level 4	3
Core	116319	Prepare a whole farm budget and establish a proper integrated information system for an agri-business	Level 4	3
Core	116321	Procure and manage agricultural input	Level 4	3
Core	116316	Propagate plants in a variety of situations	Level 4	3
Core	116317	Schedule the operation and maintenance of irrigation systems	Level 4	3
Fundamental	8968	Accommodate audience and context needs in oral communication	Level 3	5
Fundamental	8972	Interpret a variety of literary texts	Level 3	5
Fundamental	8969	Interpret and use information from texts	Level 3	5
Fundamental	8970	Write texts for a range of communicative contexts	Level 3	5
Fundamental	9015	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	Level 4	6
Fundamental	8974	Engage in sustained oral communication and evaluate spoken texts	Level 4	5
Fundamental	116312	Implement a data collection plan	Level 4	4
Fundamental	12417	Measure, estimate & calculate physical quantities & explore, critique & prove geometrical relationships in 2 and 3 dimensional space in the life and workplace of adult with increasing responsibilities	Level 4	4

Fundamental	116320	Plan and maintain environmentally sound agricultural processes	Level 4	8
Fundamental	8975	Read analyse and respond to a variety of texts	Level 4	5
Fundamental	8979	Use language and communication in occupational learning programmes	Level 4	5
Fundamental	7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	Level 4	6
Fundamental	8976	Write for a wide range of contexts	Level 4	5
Elective	116289	Ensure sustainable wild flower harvesting operations	Level 4	5
Elective	116279	Implement a permaculture site design	Level 4	7
Elective	116304	Manage agricultural export logistics	Level 4	4
Elective	116306	Manage organic certification and internal control systems	Level 4	5
Elective	116314	Produce crop in a hydroponic system	Level 4	4
Elective	116315	Recognise agri/ecotourism within the strategic environment	Level 4	5

NATIONAL CERTIFICATE IN ANIMAL PRODUCTION NQF 1

SAQA QUAL ID

48970

QUALIFICATION TITLE

National Certificate: Animal Production

MINIMUM CREDITS

120

NQF LEVEL

Level 1

Rationale:

This qualification provides learners the opportunity to gain a qualification in Animal Production. The range of typical learners that will enter this qualification will vary and includes:

- New entrants in farming who wish to progress to the level of Junior Labourer within farming operations in Animal Husbandry;
- New entrants that wishes to enter the sector as farmers;
- Learners in possession of different levels of practical experience in farming operations, which will be assessed and RPL`ed;
- Possible candidates for promotion identified by the community as leaders.
- Learners may come from both genders.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

It is assumed that a learner entering a programme leading to this qualification has achieved numeracy, literacy and communication equivalent to ABET 3.

QUALIFICATION RULES

Fundamental

- A minimum of 50 credits should be achieved in fundamental. All unit standards listed are compulsory.

Core

□ 55 credits should be achieved in core. All unit standards listed are compulsory.

Elective

□ A minimum of 15 credits should be achieved in Elective, depending on the context of application of the unit standards.

UNIT STANDARDS:

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	116158	Apply basic agricultural enterprise selection principles	Level 1	2
Core	116166	Apply basic food safety practices	Level 1	1
Core	116160	Apply basic human resource management principles and practices applicable in an agricultural environment	Level 1	2
Core	116172	Apply elementary farm layout and infrastructure	Level 1	2
Core	116191	Apply standard animal feeding procedures	Level 1	6
Core	116165	Define production and understand the basic activities of production / conversion in the agri-business environment	Level 1	2
Core	116164	Demonstrate an understanding of the importance of marketing	Level 1	2
Core	116173	Evaluate basic external animal anatomy and morphology	Level 1	5
Core	116163	Handle inputs and stock in agri-business	Level 1	2
Core	116198	Harvest animal products	Level 1	5
Core	116159	Identify the need for capital and understand the need for the recording of the income and different costs in an agri-business	Level 1	2
Core	116168	Maintain basic water quality	Level 1	1
Core	116197	Observe and handle animals	Level 1	5
Core	116174	Recognise basic breeding behaviour of farm animals	Level 1	6
Core	116190	Recognise defensive behavior in animals	Level 1	4
Core	116167	Select, use and care for hand tools and basic equipment and infrastructure	Level 1	4
Core	116169	Understand how sustainable farming systems conserve natural resources	Level 1	4
Fundamental	7464	Analyse cultural products and processes as representations of shape, space and time	Level 1	2
Fundamental	116156	Collect agricultural data	Level 1	2
Fundamental	7451	Collect, analyse, use and communicate numerical data	Level 1	2
Fundamental	7449	Critically analyse how mathematics is used in social, political and economic relations	Level 1	2
Fundamental	14084	Demonstrate an understanding of and use the numbering system	Level 1	1
Fundamental	116157	Demonstrate an understanding of the basic concepts of sustainable farming systems	Level 1	4
Fundamental	13355	Demonstrate an understanding of the physical and biological environment and its relationship to sustainable crop production	Level 1	4

Fundamental	7463	Describe and represent objects and the environment in terms of shape, space, time and motion	Level 1	2
Fundamental	12462	Engage in a range of speaking and listening interactions for a variety of purposes	Level 1	6
Fundamental	12471	Explore and use a variety of strategies to learn (revised)	Level 1	5
Fundamental	12469	Read and respond to a range of text types	Level 1	6
Fundamental	7461	Use maps to access and communicate information concerning routes, location and direction	Level 1	1
Fundamental	7447	Working with numbers in various contexts	Level 1	6
Fundamental	12470	Write for a variety of different purposes	Level 1	6
Elective	116207	Apply basic dairy production practices	Level 1	6
Elective	116153	Apply basic pig husbandry practices	Level 1	5
Elective	116209	Demonstrate an understanding of agri/ecotourism as a system at micro level	Level 1	5
Elective	116161	Sort and handle animal fibre	Level 1	5
Elective	116149	Understand organic market requirements	Level 1	3
Elective	116208	Understand the basic practices of beekeeping and the benefit thereof for agriculture	Level 1	1
Elective	116643	Administer livestock processing treatments	Level 2	8
Elective	116638	Mix and deliver feedlot feed to bunker	Level 2	4

REGISTERED QUALIFICATION:

National Certificate: Animal Production

SAQA QUAL ID	QUALIFICATION TITLE
48976	National Certificate: Animal Production

ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUAL CLASS
Undefined	120	Level 2	Regular-Unit Stds Based

Rationale:

This qualification provides learners the opportunity to gain a qualification in Animal Production. The range of typical learners that will enter this qualification will vary and includes:

- Junior farm labourers who wish to progress to the level of Labourer within farming operations in Animal Husbandry;
- Farm owners, in possession of an equivalent qualification at NQF 1;
- Learners in possession of different levels of practical experience in farming operations, which will be assessed and RPL`ed;
- Possible candidates for promotion identified by the community as leaders.
- Learners may come from both genders.

The learner will engage in supervision and operational activities relevant to Animal Production.

Requests and expressions of need for this qualification, coming from the broad, but also specific farming communities (Animal Husbandry) forms the basis for the development of this qualification.

Recognition of Prior Learning:

This qualification may be achieved in part or in whole through the recognition of prior learning. Credit will be given to learning, which has already been acquired, through the appropriate process of assessment.

QUALIFICATION RULES

Fundamental

- A minimum of 42 credits should be achieved in fundamental. All unit standards listed are compulsory.

Core

- 71 credits should be achieved in core.

Elective

- A minimum of 7 credits should be achieved in Elective, depending on the context of application of the unit standards.

UNIT STANDARDS:

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	116144	Apply animal products harvesting procedures	Level 2	5
Core	116125	Apply crop protection and animal health products effectively and responsibly	Level 2	4
Core	116127	Apply layout principles for conservation and infrastructure	Level 2	5
Core	116126	Apply marketing principles in agriculture	Level 2	2
Core	116121	Apply sustainable farming practices to conserve the ecological environment	Level 2	5
Core	116123	Consider plant botany during the placement of bee hives	Level 2	2
Core	116122	Control inputs and stock in agribusiness	Level 2	2
Core	116115	Define and understand production systems and production management	Level 2	2
Core	116117	Evaluate external animal anatomy and morphology	Level 2	5
Core	116113	Explain principles of human resources management and practices in agriculture	Level 2	2
Core	116081	Identify and recognise factors influencing agricultural enterprise selection	Level 2	2
Core	116107	Identify basic breeding practices for farm animals	Level 2	5
Core	116083	Illustrate and understand the basic layout of financial statements	Level 2	2
Core	116077	Monitor water quality	Level 2	3
Core	116074	Observe and inspect animal health	Level 2	5
Core	116070	Operate and support a food safety and quality management system in the agricultural supply chain	Level 2	2

Core	116063	Respond correctly to control defensive behaviour in animals	Level 2	4
Core	116055	Understand animal nutrition	Level 2	7
Core	116060	Utilise and perform minor repair and maintenance tasks on implements, equipment and infrastructure	Level 2	5
Fundamental	13355	Demonstrate an understanding of the physical and biological environment and its relationship to sustainable crop production	Level 1	4
Fundamental	8963	Access and use information from texts	Level 2	5
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
Fundamental	7480	Demonstrate understanding of rational and irrational numbers and number systems	Level 2	3
Fundamental	8962	Maintain and adapt oral communication	Level 2	5
Fundamental	12444	Measure, estimate and calculate physical quantities and explore, describe and represent geometrical relationships in 2-dimensions in different life or work-place contexts	Level 2	3
Fundamental	116080	Monitor, collect and collate agricultural data	Level 2	2
Fundamental	116064	Recognise and identify the basic functions of the ecological environment	Level 2	4
Fundamental	8967	Use language and communication in occupational learning programmes	Level 2	5
Fundamental	7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	Level 2	2
Fundamental	9007	Work with a range of patterns and functions and solve problems	Level 2	5
Fundamental	8964	Write for a defined context	Level 2	5
Elective	116643	Administer livestock processing treatments	Level 2	8
Elective	8347	Control problem Animals	Level 2	4
Elective	116120	Explain basic pig husbandry practices	Level 2	4
Elective	116110	Explain dairy production cleanliness	Level 2	5
Elective	116638	Mix and deliver feedlot feed to bunker	Level 2	4
Elective	116069	Participate in agri/ecotourism practices at both micro and meso levels to tourists	Level 2	4
Elective	116062	Prepare a shearing shed for shearing	Level 2	3
Elective	116645	Control feedbunker and water trough quality	Level 3	6
Elective	116653	Demonstrate an understanding of feedlot feed ingredient and blends	Level 3	6
Elective	116647	Demonstrate an understanding of the feedlot environment	Level 3	10
Elective	116637	Determine livestock mass	Level 3	2

REGISTERED QUALIFICATION:

National Certificate: Animal Production

SAQA QUAL ID
49048

QUALIFICATION TITLE
National Certificate: Animal Production

ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUAL CLASS
Undefined	120	Level 3	Regular-Unit Stds Based

Rationale:

This qualification provides learners the opportunity to gain a qualification in Animal Production. The range of typical learners that will enter this qualification will vary and includes:

- Farm operators who wish to progress to the level of supervisor within farming operations in Animal Husbandry;
- Farm owners, in possession of an equivalent qualification at NQF 2;
- Learners in possession of different levels of practical experience in farming operations, which will be assessed and RPL`ed;
- Possible candidates for promotion identified by the community as leaders.
- Learners may come from both genders.

The learner will engage in supervision and operational activities relevant to Animal Production.

Recognition of prior learning:

This qualification may be achieved in part or in whole through the recognition of prior learning. Credit will be given to learning, which has already been acquired, through the appropriate process of assessment.

QUALIFICATION RULES

Fundamental

- A minimum of 48 credits should be achieved in fundamental. All unit standards listed are compulsory.

Core

- 65 credits should be achieved in core.

Elective

- A minimum of 7 credits should be achieved in Elective, depending on the context of application or on the combination of the unit standards.

UNIT STANDARDS:

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	116125	Apply crop protection and animal health products effectively and responsibly	Level 2	4
Core	116216	Apply advanced breeding practices for farm animals	Level 3	4
Core	116275	Apply routine maintenance and servicing plans and procedures	Level 3	3

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Core	116274	Assist in farm planning and layout for conservation and rainwater harvesting	Level 3	3
Core	116260	Explain animal anatomy and physiology	Level 3	5
Core	116259	Explain application of marketing principles within an alternative and dynamic agricultural marketing environment	Level 3	3
Core	116237	Explain costing and the viability of an agri-business	Level 3	3
Core	116225	Explain elementary animal nutrition	Level 3	6
Core	116257	Explain human resource policies and procedures	Level 3	3
Core	116240	Explain store inputs categories, labeling and storage methods	Level 3	3
Core	116217	Explain the harvesting of animal products	Level 3	5
Core	116218	Explain the planning and scheduling of tasks in a production environment	Level 3	3
Core	116219	Explain the prevention and treatment of animal diseases	Level 3	5
Core	116214	Interpret factors influencing agricultural enterprises and plan accordingly	Level 3	3
Core	116212	Maintain water quality parameters	Level 3	2
Core	116211	Minimise risk in animal management	Level 3	3
Core	116271	Monitor and supervise a food safety and quality management system in the agricultural supply chain	Level 3	3
Core	116263	Monitor natural resource management practices	Level 3	4
Fundamental	8968	Accommodate audience and context needs in oral communication	Level 3	5
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
Fundamental	9013	Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	Level 3	4
Fundamental	116222	Incorporate basic concepts of sustainable farming systems into practical farm activities	Level 3	7
Fundamental	8969	Interpret and use information from texts	Level 3	5
Fundamental	9012	Investigate life and work related problems using data and probabilities	Level 3	5
Fundamental	116269	Supervise the collection of agricultural data	Level 3	5
Fundamental	8973	Use language and communication in occupational learning programmes	Level 3	5
Fundamental	7456	Use mathematics to investigate and monitor the financial aspects of personal, business and national issues	Level 3	5
Fundamental	8970	Write texts for a range of communicative contexts	Level 3	5
Elective	8347	Control problem Animals	Level 2	4
Elective	116215	Apply basic artificial insemination practices	Level 3	5
Elective	116273	Apply blade-shearing skills and prepare blade-shearing equipment	Level 3	8
Elective	116277	Apply machine-shearing skills and prepare shearing equipment	Level 3	8
Elective	116276	Apply pig husbandry practices	Level 3	5

Elective	116258	Communicate agri/ecotourism principles and concepts effectively and adapt to needs	Level 3	5
Elective	116645	Control feedbunker and water trough quality	Level 3	6
Elective	10976	Convey livestock	Level 3	8
Elective	116653	Demonstrate an understanding of feedlot feed ingredient and blends	Level 3	6
Elective	116647	Demonstrate an understanding of the feedlot environment	Level 3	10
Elective	116637	Determine livestock mass	Level 3	2
Elective	116228	Explain dairy production	Level 3	6
Elective	116270	Manage sites for bee keeping	Level 3	2
Elective	116213	Organise shearing shed activities	Level 3	4

NATIONAL CERTIFICATE IN ANIMAL PRODUCTION NQF 4

REGISTERED QUALIFICATION: National Certificate: Animal Production

SAQA QUAL ID

48979

QUALIFICATION TITLE

National Certificate: Animal Production

ABET BAND

Undefined

MINIMUM CREDITS

140

NQF LEVEL

Level 4

QUAL CLASS

Regular-Unit Stds Based

Rationale:

The range of typical learners that will enter this qualification will vary and includes:

- Farm operators who wish to progress to the level of junior farm manager;
- Learners in possession of different levels of practical experience in farming operations, which will be assessed and RPL`ed;
- School leavers (Gr. 12) from agricultural schools; and
- Learners may come from both genders.

The learner will engage in farm management and operational activities relevant to Animal Production.

Recognition of Prior Learning:

This qualification may be achieved in part or in whole through the recognition of prior learning. Credit will be given to learning, which has already been acquired, through the appropriate process of assessment.

QUALIFICATION RULES

The qualification is composed of Fundamental, Core and Elective learning components:

- Fundamental: 68 credits
- Core: 58 credits
- Elective: the learner must select a minimum of 14 credits from the Elective component

Total: 140 credits (minimum)

UNIT STANDARDS:

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	116300	Apply procedures to manage damage control in animals and victims	Level 4	2
Core	116302	Assume co-responsibility and participation in human resource management	Level 4	3
Core	116290	Establish a plan for the monitoring, safe use and maintenance of equipment implements, technology and infrastructure	Level 4	3
Core	116293	Evaluate, adjust and implement factors influencing agricultural enterprises	Level 4	3
Core	116288	Execute sustainable resource use and quality control	Level 4	3
Core	116281	Explain animal classification and natural history	Level 4	2
Core	116285	Explain functional animal anatomy and physiology	Level 4	3
Core	116282	Explain intermediate animal nutrition	Level 4	4
Core	116286	Give an overview of the industry structure	Level 4	2
Core	116278	Implement a food safety and quality management system in the agricultural supply chain	Level 4	3
Core	116303	Implement a natural resource management plan	Level 4	3
Core	116308	Implement animal health and bio-security programs	Level 4	3
Core	116309	Implement integrated farm layout and site selection	Level 4	3
Core	116307	Manage the quality of the harvesting of animal products	Level 4	3
Core	116322	Manage water quality parameters	Level 4	3
Core	116291	Participate in the development and management of an agri business plan	Level 4	3
Core	116684	Participate in the development and management of an agricultural marketing plan	Level 4	3
Core	116318	Plan and maintain breeding systems	Level 4	3
Core	116319	Prepare a whole farm budget and establish a proper integrated information system for an agri-business	Level 4	3
Core	116321	Procure and manage agricultural input	Level 4	3
Fundamental	8968	Accommodate audience and context needs in oral communication	Level 3	5
Fundamental	8972	Interpret a variety of literary texts	Level 3	5
Fundamental	8969	Interpret and use information from texts	Level 3	5
Fundamental	8970	Write texts for a range of communicative contexts	Level 3	5
Fundamental	9015	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	Level 4	6
Fundamental	8974	Engage in sustained oral communication and evaluate spoken texts	Level 4	5
Fundamental	116312	Implement a data collection plan	Level 4	4
Fundamental	12417	Measure, estimate & calculate physical quantities & explore, critique & prove geometrical relationships in 2 and 3 dimensional space in the life and workplace of adult with increasing responsibilities	Level 4	4
Fundamental	116320	Plan and maintain environmentally sound agricultural processes	Level 4	8
Fundamental	8975	Read analyse and respond to a variety of texts	Level 4	5

Fundamental	8979	Use language and communication in occupational learning programmes	Level 4	5
Fundamental	7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	Level 4	6
Fundamental	8976	Write for a wide range of contexts	Level 4	5
Elective	10976	Convey livestock	Level 3	8
Elective	116299	Apply advanced pig husbandry practices	Level 4	5
Elective	116649	Control feedlot production unit	Level 4	32
Elective	116298	Develop bee sites	Level 4	2
Elective	116310	Implement dairy production operations	Level 4	6
Elective	116304	Manage agricultural export logistics	Level 4	4
Elective	116315	Recognise agri/ecotourism within the strategic environment	Level 4	5
Elective	116313	Supervise artificial insemination practices	Level 4	5
Elective	116402	Effective and responsible control of problem animals	Level 5	8

REGISTERED QUALIFICATION:

National Certificate: Farming

SAQA QUAL ID	QUALIFICATION TITLE
20288	National Certificate: Farming

ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUAL CLASS
Undefined	120	Level 2	Regular-Unit Stds Based

Rationale:

The range of typical learners that will enter this qualification will vary and includes:

- School leavers wishing to enter the primary agricultural sector;
- Complete novices wishing to enter the primary agricultural sector, i.e. individuals who are beneficiaries of the land reform processes;
- Learners in possession of different levels of practical experience in farming operations, which will be assessed through Recognition of Prior Learning; and
- Learners may come from both genders.

Recognition of Prior Learning:

This qualification may be achieved in part or in whole through the recognition of prior learning. Credit will be given to learning, which has already been acquired, through the appropriate process of assessment.

QUALIFICATION RULES N/A

UNIT STANDARDS:

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	12621	Collect, use and communicate data that relate to farming	Level 2	2

Core	12618	Demonstrate a basic understanding of agricultural production systems	Level 2	5
Core	12615	Demonstrate a basic understanding of the primary agricultural industry	Level 2	2
Core	8494	Demonstrate an understanding of HIV/AIDS and its implications	Level 2	4
Core	12619	Identify pest and diseases relevant to an agricultural commodity learner is associated with	Level 2	4
Core	12617	Maintain hygiene measures	Level 2	3
Core	8493	Maintain occupational health and safety	Level 2	2
Core	8420	Operate in a team	Level 2	4
Core	12646	Perform quality checks	Level 2	3
Core	12616	Operate and perform routine maintenance on equipment and tools	Level 3	5
Fundamental	12537	Identify personal values and ethics in the workplace	Level 1	4
Fundamental	8963	Access and use information from texts	Level 2	5
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
Fundamental	7480	Demonstrate understanding of rational and irrational numbers and number systems	Level 2	3
Fundamental	9008	Identify, describe, compare, classify, explore shape and motion in 2-and 3-dimensional shapes in different contexts	Level 2	3
Fundamental	8962	Maintain and adapt oral communication	Level 2	5
Fundamental	7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	Level 2	2
Fundamental	9007	Work with a range of patterns and functions and solve problems	Level 2	5
Fundamental	8964	Write for a defined context	Level 2	5
Fundamental	8973	Use language and communication in occupational learning programmes	Level 3	5
Elective	13999	Demonstrate an understanding of basic accounting practices	Level 1	4
Elective	13995	Demonstrate an understanding of contracts and their sources	Level 1	2
Elective	14001	Demonstrate an understanding of managerial expertise and administrative capabilities	Level 1	4
Elective	13998	Demonstrate an understanding of the principles of supply and demand, and the concept: production	Level 1	2
Elective	13994	Identify and discuss different types of business and their legal implications	Level 1	4
Elective	13996	Identify, discuss, describe and compare major economic systems, with emphasis on the South African economy	Level 1	2
Elective	12623	Control weeds	Level 2	7
Elective	7547	Operate a personal computer system	Level 2	6
Elective	12622	Perform routine maintenance on farm installations	Level 2	5
Elective	12630	Support disaster and conservation management	Level 2	5
Elective	12631	Apply basic entrepreneurial principles to farming	Level 3	7

OTHER PROGRAMMES OFFERED AT THE CAPE INSTITUTE FOR AGRICULTURAL TRAINING: ELSENBURG

Higher Education

B. Agric. Degree Programme (three years)

In collaboration with the University of Stellenbosch

Main study fields: Agritourism, Agronomy & Pastures, Animal Production (small stock), Animal Production (large stock), Vegetable Production, Cellar Management, Pomology, Extension, Viticulture, Oenology

Admission requirements: Senior Certificate with exemption, and an average of 50%. At least one of the following: Mathematics, Science or Biology

Higher Certificate in Agriculture (two years)

Specialising in one of two programme options:

Programme A: Field Husbandry, Vegetable Culture, Large Stock, Small Stock

Programme B: Viticulture (wine en table grapes), Pomology (kernel fruit, stone fruit, nuts/citrus)

Admission requirements: An average of 50%. At least one of the following: Mathematics, Science or Biology. Matriculation exemption is not a requirement.

Diploma in Agriculture (one year)

Modular experience teaching programme regarding Production, Agricultural Management and Natural Resource Management

Admission requirements: Higher Certificate in Agriculture

Diploma in Extension (one year)

Modular experience teaching programme dealing with various aspects of Extension Science, supplemented by assignments.

Admission requirements: Higher Certificate in Agriculture or an equivalent qualification. Also suitable for extension officers in disciplines other than agriculture, e.g. nature conservation, health, social services, etc.

Diploma in Cellar Technology (one year)

Modular programme aimed at training candidates as winemakers.

Admission requirements: Higher Certificate with Oenology as a major subject. B.Agric. with Oenology up to second year level.

Equine studies (two years)

National Instructor's Course for Riders (full-time students).

Part-time training in general handling of horses, as well as riding lessons for riders.

Admission requirement: Senior Certificate. Possession of own horse not essential.