

CONTENTS

VISION AND MISSION	3
ELSENBURG: A PROUD TRADITION	4
CONTACT DETAILS	5
SKILL COURSES	6
COURSES OFFERED	8
● General Agriculture	
1 Safe handling of chemicals (AVCASA) OS2	8
2 Crop protection OS4.	8
3 Calibration of knapsack sprayers OS3.	8
4 Calibration of spraying equipment OS4.	9
5 Operating a Personal Computer OS4	9
6 Soil preparation and plant nutrition OS3.	10
7 Introduction to irrigation OS3	10
● Vegetable Production	
8 Vegetable production OS5.	11
● Viticulture*¹	
9 Vineyard cultivation: A bird’s eye view OS2	11
10 Vineyard canopy management OS3	12
11 Vineyard maintenance pruning OS3	12
12 Harvesting grapes OS3.	13
13 Vineyard block management OS6	13
<i>*¹ The following are included under Viticulture: Table-, wine-, or raisin grapes. (Specify when making the reservation.)</i>	
● Fruit Production*²	
14 Introduction to deciduous fruit production* ² OS139	14
15 Pruning and manipulation of deciduous fruit OS3.	14
16 Olive production OS5	15
<i>*² The following crops are included under deciduous Fruit production: Pome fruit, stone fruit, and citrus. (Specify crop when making an reservation.)</i>	
● Animal Husbandry	
17 Introduction to poultry production OS1.	15
18 Poultry production OS3.	15
19 Advanced poultry production OS10	16
20 Introduction to pig production OS1	16
21 Pig production OS3	17
22 Beef production OS3	17
23 Boer goat production OS3.	18
24 Ostrich production 0-3 months OS2	18

25 Ostrich production 3 months till slaughter OS2	19
26 Sheep production OS3	19
27 Dairy production OS10	20
● Agricultural Engineering	
28 Erection and maintenance of wire fencing OS5	20
29 Metalwork on the farm OS10	21
30 Routine tractor care on the farm OS5	21
31 Functioning and maintenance of windmills OS1	22
● Agricultural Management / Economics	
32 Agricultural awareness OS3	22
33 Agricultural marketing OS3	22
34 Financial management OS4	23
35 Agricultural management OS3	23
36 Entrepreneurship OS4	24
● Human and Social Sciences	
37 Communication OS3	24
38 Conflict management OS2	25
39 Leadership OS3	25
40 Life orientation OS4	26
41 Motivation OS3	26
42 Meeting procedures OS2	27
● Other Skills Courses	
43 Analysis Course: Fruit, Grapes and Wine	27
44 Greenhouse Management	28
LEARNERSHIP PROGRAMME	28
Unit Standards with reference to the Learnership programme	30
OTHER PROGRAMMES OFFERED AT THE CAPE INSTITUTE FOR AGRICULTURAL TRAINING: ELSENBURG	50

Vision and Mission of the Cape Institute for Agricultural Training: Elsenburg

Vision

The leader in quality agricultural training
and development in Africa

Mission

Empowering our clients by presenting market
driven training programmes that stimulate
sustainable economic growth

ELSENBURG: A PROUD TRADITION

Elsenburg's history dates back to 1698, when the land was allocated to Samuel Elsevier by Willem Adriaan van der Stel, at that time the governor of the Cape colony. The farm's successive owners, among whom Martin Melck is probably the best known, built it up to one of the prime farms in the Cape. Martin Melck built the beautiful old manor house in 1761. The farm was sold to the government by the Myburgh family in 1898.

On 1 September 1898 the Agricultural College, the first of its kind in South Africa, opened its doors. Five students received their diplomas at the end of the first academic year (June 1899). During the first fourteen years of its existence the average number of students was 44. During the first World War, however, there was a drastic reduction in applications, with only 8 students studying there in 1915.

In 1926 Elsenburg College of Agriculture and the University of Stellenbosch amalgamated and a two-year diploma course was offered at Elsenburg, with the primary aim of training prospective farmers. In 1927 this course was replaced with a one-year course, which was replaced by practical courses in 1931. In 1939 the two-year diploma course was reinstated. Elsenburg's relationship of 47 years with the University was severed in 1973 and the Department of Agriculture accepted responsibility for agricultural training at Elsenburg.

An important milestone in 1976 was the establishment of the Diploma in Cellar Technology. Almost 80% of South Africa's winemakers today, received their agricultural training at Elsenburg.

In 1994, with the transformation to a democratic political order in South Africa, the Department of Agriculture: Western Cape was created. The Elsenburg and Kromme Rhee colleges of agriculture amalgamated. The amalgamation placed a great responsibility on the Department of Agriculture to continue and to expand the training offered. A Centre for Further Education and Training was consequently created to address the need for short, practical courses.

The relationship with the University of Stellenbosch was again initiated and since 2004 Elsenburg has been offering a B. Agric programme in association with the University of Stellenbosch's Faculty of Agriculture and Forestry Sciences.

This development is in line with the government's new academic policy to give tertiary students more mobility between educational institutions. Duplication of programmes is also eliminated.

From 1 April 2004 Elsenburg College of Agriculture is known as the Cape Institute for Agricultural Training: Elsenburg (CIAT).

CONTACT DETAILS

All course correspondence must be directed to:

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Cape Institute for Agriculture Training: Elsenburg

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PLEASE NOTE

1. Elsenburg reserves the right to amend the Prospectus at any time.
2. Management of the Cape Institute for Agricultural Training: Elsenburg accept no liability for any inaccuracies there may be in the Prospectus. Every reasonable care has, however, been taken to ensure that the relevant information to hand as at 31 October 2006, the time of going to press, is given fully and accurately in the Prospectus.

SKILL COURSES

WHAT DO WE OFFER?

CIAT offers practical orientated skills courses in the following study fields.

- General agriculture
- Viticulture
- Animal husbandary
- Human and social science
- Vegetable production
- Fruit production
- Agricultural management / economics

WHAT IS A SKILLS COURSE?

A short training programme to equip the student with theoretical and practical knowledge and skills with regard to agriculture. This will enable them to practically implement skills transferred during the course, and make well thought, informed observations and limited decisions on the farm.

General information

- The target audience for skill courses are resource poor farmers, LRAD beneficiaries, rural communities, commercial farmers, farm workers as well as youth, the aged, woman and disabled.
- This target audience include anyone that can read and write, regardless of the level of previous training.
- All study material is available in English and Afrikaans.
- Courses are primarily offered in English and Afrikaans. In certain cases can a course be offered in Xhosa.
- Courses will be presented only if the prescribed **number of students** have applied, normally a minimum of 8 is required.
- All **courses** can be presented **away from** the **Elsenburg** campus e.g. within communities, provided the necessary training facilities are available.
- Additional **follow-up training** sessions on farms / sites / communities can be arranged at a specific tariff.
- Course duration varies from 1 to 10 days. The duration of the courses are indicated with the code at the course title (ex. OS3: O=Further Education & Training; S=Skill course; 3=course days).
- Course attendants must have their **ID books** available at registration

Bookings and Payment procedure

- All bookings must be done on the applicable **Registration form**. It can be send by post, fax or e-mail.
- The cut off date for bookings is **two weeks** before the course commencement date.
- **Confirmation** of bookings will be forwarded on receipt of payment.
- No **refunds** will be considered on cancellations made less than one full week prior to the course commencement date.
- **Payment** into Bank Account:
Dept. of Agriculture
Account No.: 4054910586
Branch Code: 638909
ABSA BANK (Western Cape Gov.)

Clearly indicate the following on receipt of payment:

81 FET CIAT

Course title and date

Fax the receipt as evidence of payment for attention Head: Student Affairs

Fax: +27 21 884 4319

Indicate the course title, date and name of person attending the course

● Student fees

- > Tuition
 - R50 per person per course day (**AWAY** from Training Centre).
 - R70 per person per course day (**AT** Training Centre), lunch included.
 - Lecture material (language of preference, Afrikaans or English) is included in tuition fees.
 - R120 per person per course day (**AT** George, Clanwilliam, Bredasdorp and Elsenburg): tuition, accommodation and three meals included.
- > All fees are VAT inclusive.
- > Fees are subject to change.

● Report and Registration

- > Time:
 - 08h30 on first day of course.
- > Venue:
 - **OLD POST OFFICE**, Elsenburg
 - **WELDING WORKSHOP**, Elsenburg
 - **TRACTOR WORKSHOP**, Elsenburg
 - **OUTENIQUA TRAINING CENTRE**, George
 - **OUTDSHOORN TRAINING CENTRE**, Oudtshoorn
 - **AUGSBURG TRAINING CENTRE**, Clanwilliam
 - Bredasdorp
 - Rural communities or villages (as by prior arrangement or agreement)

● Accreditation/Assessment

Learnerships and short courses are presented according to SAQA approved unit standards. Learnership assessments will be executed according to the applicable assessment criteria. Learners being **certified competent, will receive credits for the applicable unit standards**. Learners attending a full short course, will receive a **Certificate of Attendance**. Recognition of prior learning (RPL) can be awarded to candidates with applicable knowledge and skills.

● To bring along

- > All courses:
 - Pen, Pencil, (Optional: File to keep learning material neat).
- > Practical courses:
 - Work wear (Overall, safety shoes, gumboots, rainwear).
- > Staying over at Elsenburg/ George/ Clanwilliam / Bredasdorp / Oudtshoorn: Toiletries, towel, clothes.
- > Equipment, e.g. pruning shears where applicable.

● Meals

- > Lunch: 12h45 – 13h30
- > Breakfast: 07h15 – 07h45 (only available when staying over)
- > Supper: 18h00 – 18h45 (only available when staying over)

COURSES OFFERED:

1. SAFE HANDLING OF CHEMICALS (AVCASA) OS2

OBJECTIVE:

To equip the student with theoretical and practical knowledge and skills regarding the safe use and handling of chemicals with crops, to be able to make wellthought and informed observations and limited decisions.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116125 (4)

CONTENTS:

Storage and packaging; classification codes; first aid; pictograms; poisoning; contamination; container and waste disposal; protective clothing; protection of environment

OUTCOMES:

Learners that are certified as competent will have acquired the necessary **knowledge** and **skills** to **understand** and apply the responsible use of poisonous substances.

2. CROP PROTECTION OS4

OBJECTIVE:

To supply the student with theoretical and practical knowledge and skills regarding crop protection to make well-considered and informed observations and limited decisions.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116204(5)

CONTENT:

Plant diseases; pests; insects; pests; weeds; integrated pest control

OUTCOMES:

The student who have attended the complete course, should have the theoretical and practical knowledge and skills regarding the most important aspects of crop protection and should be able to make well-considered and informed observations and limited decisions.

3. CALIBRATION OF KNAPSACK SPRAYERS OS3

OBJECTIVE:

To provide students with the knowledge and skills regarding the principles related to the calibration of knapsack sprayers to ensure optimal spraying.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116167 (4) 7812 (3) 116275 (3) 116290 (3) 12564 (5) 116060 (5)
14374 (6) 13501 (2)

CONTENTS:

Components of spraying equipment (types of nozzles; droplet size; pump; pressure control system; filtering; agitating the tank); calibrating the knapsack; application volume; speed; flow rate; perform basic calculations (use the metric system); basic equipment appropriate to calibration of sprayers; operate, care for and store basic tools / equipment in safe and responsible manner; apply routine maintenance procedures to ensure ongoing working order of equipment

OUTCOMES:

Learners that are certified as competent will have acquired:

- adequate **knowledge** and **understanding** of the components of knapsack sprayers, all working parts' function and the **skill** to calibrate knapsack sprayers.

4. CALIBRATION OF SPRAYING EQUIPMENT OS4

OBJECTIVE:

To provide students with the knowledge and skills regarding the principles related to the calibration of spraying equipment to ensure optimal spraying.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116167(4) 7812 (3) 116275 (3) 116290 (3) 116060 (5) 13501 (2)

CONTENTS:

- Components of spraying equipment (types of nozzles; droplet size; pumps; pressure control systems; filtering); generation of air energy; agitating the tank; calibration; application volume; speed; flow rate; perform basic calculations (use the metric system); accurately; able to select hand tools / basic equipment appropriate to calibration of sprayers; operate, care for and store basic tools/ equipment; apply a routine maintenance and routine servicing plan procedures to ensure ongoing efficient working order of equipment

OUTCOMES:

Learners that are certified as competent will have acquired:

- adequate **knowledge** and **understanding** of the components of spraying equipment, all working parts' function and the **skill** to calibrate spraying equipment.

5. OPERATING A PERSONAL COMPUTER OS4

OBJECTIVE:

To give learners a solid foundation of knowledge and skills in computer hardware and software to prepare them for learning more specific application programs.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

7547 (6)

CONTENTS:

Understanding, use and maintenance of hardware components; basic operating system procedures; understanding different types of application software and the purpose of each; managing files on the computer.

OUTCOMES:

People credited with this unit standard are able to describe, operate and maintain the hardware components of a personal computer, perform operating system operations, describe personal computer software, describe how computer data is stored, manage computer files, protect computer data and operate a personal computer printer.

6. SOIL PREPARATION AND PLANT NUTRITION OS3

OBJECTIVE:

To supply the student with theoretical and practical knowledge and skills regarding soil preparation and plant nutrition, to make well-considered and informed observations and limited decisions

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116206 (5) 116053 (5) 116267 (5) 116311 (3)

CONTENTS:

Soil properties (physical soil properties, chemical soil properties, organic soil properties); Plant nutrition (necessary nutrients, fertilizers, sampling, preparing compost, soil analysis, plants needs); Cultivation practices

OUTCOMES:

The student who have attended the complete course, should have the theoretical and practical **knowledge** and **skills** regarding the most important aspects of soil preparation and plant nutrition and should be able to make well-considered and informed observations and limited decisions.

7. INTRODUCTION TO IRRIGATION OS3

OBJECTIVE:

To provide students with basic knowledge and skills regarding irrigation, soil - water relationships, water requirements of crops and different methods of irrigation.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116168 (1) 116202 (2)

CONTENTS:

Soil – water relationships; movement of water in soil; availability of water; soil texture, soil structure; water requirements of crops; methods of irrigation; irrigation scheduling; crop requirements; irrigation system installation

OUTCOMES:

The learner who is accredited with the Unit Standards that are incorporated in this course will have acquired:

- adequate **knowledge** and **understanding** of the basic principles of irrigation
- the necessary **skills** needed to implement these different aspects successfully in their daily farming operations, in co-operation with the manager.

8. VEGETABLE PRODUCTION OS5

OBJECTIVE:

This course is aimed at students wishing to start farming with vegetables and/or those already farming with vegetables who wish to improve their theoretical and practical knowledge and skills of farming successfully with vegetables.

APPLICABLE UNIT STANDARD (CREDITS):

116199(4) 116265(2) 116158(2) 116200(2) 116201(5) 116206(5)
116203(5) 116204(5) 116202(2) 116203(5) 116125(4)

CONTENTS:

Introduction; Crop establishment (soil sampling, soil preparation, season, planting, training, trellising, equipment); Planning (market environment, time of establishment and harvest, labour distribution, rotation, crop choices, sowing guide); Nutrition (fertilization, compost); Irrigation; Safe use of chemicals; Plant diseases and weeds, Weed and pest control; Harvest and storage

OUTCOMES:

Learners that are certified as competent will have acquired the relevant theoretical and practical **knowledge** and **skills** to farm successfully with vegetables.

9. VINEYARD CULTIVATION: A BIRD'S EYE VIEW OS2

OBJECTIVE:

To give the student an overview of the scope of vine cultivation, especially regarding the basic production practices.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116158 (2) 116163 (2) 116165 (2)

CONTENTS:

Overview (National qualifications framework); soil science and vine nutrition; vineyard establishment; structure and functioning of vine; vineyard irrigation;

plant vines; vineyard crop protection; vineyard trellis systems; framework development of vines; canopy management; maintenance pruning; harvesting of grapes; viticultural nursery practices; vineyard block management

OUTCOMES:

On completion of the course, students should have acquired a sound **understanding** of the aspects that entail successful vineyard cultivation.

10. VINEYARD CANOPY MANAGEMENT OS3

OBJECTIVE:

To provide students with the knowledge and skills regarding canopy management as well as spring and summer practices in a vineyard.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

12581 (3) 116128 (4) 116264 (3) 116305 (3) 116203 (5)

CONTENTS:

- Principles of canopy management
 - > Nutrition sinks; efficient leaf surface; light and air penetration; influence on pruning and harvesting costs; the control of crop loads
- Application of canopy management practices
 - > Light management; suckering; tipping and topping; tucking in of shoots; removal of unwanted leaves; crop control and removal of new growth; spring and summer practices

OUTCOMES:

The learner who is accredited with the unit standards that are incorporated in this course will have acquired:

- adequate **knowledge** and **understanding** of the reasons for canopy management, spring and summer practices, and canopy management practices.
- the necessary **skills** to implement canopy management practices successfully in their daily farming operations.

11. VINEYARD MAINTENANCE PRUNING OS3

OBJECTIVE:

To provide students with knowledge and skills regarding the purpose, principles and application of vine pruning.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

12580 (4) 116128 (4) 116264 (3) 116305 (3) 116203 (5)

CONTENTS:

- Principles of vineyard pruning: Reasons for pruning; principles and application of pruning; time of pruning; pruning systems

- Application of pruning principles: Making the correct cut

OUTCOMES:

The learner who is accredited with the unit standards that are incorporated in this course will have acquired:

- adequate **knowledge** and **understanding** of reasons, principles and application of vine pruning
- **skills** to integrate these aspects successfully in farming operations

12. HARVESTING GRAPES OS3

OBJECTIVE:

To provide students with the necessary knowledge and skills to determine the optimum ripeness of grapes for a specific purpose, as well as skills to harvest grapes according to standard procedures.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116201(5) 116111(4) 116268 (4) 116297 (3) 12585 (3) 14335 (5)

CONTENTS:

Ripening and determination of ripeness of grapes (the development of the berries, criteria to determine ripeness, evaluation of quality, maturity indexing); Harvesting of the product (planning of a harvesting programme, sampling; preparations before harvest, harvesting systems); Post harvest handling of grapes (biological and environmental factors involved in decay, post harvest technology)

OUTCOMES:

The learner who is accredited with this course will have acquired:

- adequate **knowledge** and **understanding** of the ripeness of grapes for a specific purpose, analyse grapes to determine optimum ripeness and harvesting of grapes
- the necessary **skills** to implement the different aspects successfully in their daily farming operations.

13. VINYARD BLOCK MANAGEMENT OS6

OBJECTIVE:

To provide students with the necessary knowledge regarding managerial tasks, and how to implement it in a vineyard production environment

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116165 (2) 116115 (2) 116218 (3) 116291 (3)

CONTENTS:

Basic production factors (land, labour, capital and management); general management functions within vine cultivation (planning, leading, organising,

implementing, control); additional production management tasks (decision making, communication, motivation, coordinating, delegating, discipline, HR management); business plan

OUTCOMES:

Learners that are certified as competent will have acquired adequate **knowledge**, **understanding** and **skills** to successfully manage vineyards.

14. INTRODUCTION TO DECIDUOUS FRUIT PRODUCTION OS1

OBJECTIVE:

To supply the student with theoretical and practical knowledge and skills regarding the fruit industry in South Africa, to make well-considered and informed observations and limited decisions.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116158 (2) 116081 (2) 116214 (3)

CONTENTS:

Overview of the fruit industry in South Africa; economical considerations; natural resources; seasonal growth cycle of the fruit tree

OUTCOMES:

The student who have attended the complete course, should have the theoretical and practical **knowledge** and **skills** regarding the most important aspects of the South African fruit industry and should be able to make well-considered and informed observations and limited decisions.

15. PRUNING AND MANIPULATION OF DECIDUOUS FRUIT OS3

OBJECTIVE:

To supply the student with theoretical and practical knowledge and skills regarding pruning and manipulation of deciduous fruit to make well-considered and informed observations and limited decisions.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116203 (5) 116128 (4) 116264 (3) 116305 (3)

CONTENTS:

Training systems; pruning methods; flower manipulation; fruit manipulation

OUTCOMES:

The student who have attended the complete course, should have the theoretical and practical **knowledge** and **skills** regarding the most important aspects of pruning and manipulation of deciduous fruit and should be able to make well-considered and informed observations and limited decisions.

16. OLIVE PRODUCTION OS5

OBJECTIVE:

To provide students with the knowledge and skills regarding young tree development, as well as maintenance pruning of mature olive trees

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116203 (5) 116128 (4) 116264 (3) 116305 (3)

CONTENTS:

Reasons for frame development (vigour and quality, balanced framework, leaf distribution, micro-climate); development during the juvenile stage; principles of maintenance pruning; application of pruning principles

OUTCOMES:

The learners who is accredited with the unit standards that are incorporated in this course will have acquired:

- adequate **knowledge** and **understanding** of reasons, principles and application of olive tree framework development and maintenance pruning.

17. INTRODUCTION TO POULTRY PRODUCTION OS1

OBJECTIVE:

To supply the prospective poultry farmer with the theoretical knowledge, in order for him/her to make carefully considered and informed decision in the planning of his/her intended poultry production unit.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116158 (2) 116081 (2)

CONTENTS:

General overview of the South African and international poultry industry; market research and marketing requirements; characteristics and needs of poultry (biological features of poultry, suitable environment of poultry, production cycles); production systems; housing facilities; effective management; economic considerations

OUTCOMES:

The student, who has attended the complete course, should have the theoretical **knowledge** and **insight** regarding the principles according to which a poultry production unit is based.

18. POULTRY PRODUCTION OS3

OBJECTIVE:

This course is designed for people who are already farming with poultry as well as those people who have successfully completed the introductory course for

poultry production and who want to broaden their theoretical knowledge and skills with regard to the production practices of poultry.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116191 (6) 116074 (5) 116173 (5) 116081 (2)

CONTENTS:

Poultry breeds; production cycles; care of poultry during different growth stages; housing and infrastructure; nutrition; health management; record keeping; marketing.

OUTCOMES:

The student, who has attended the complete course, should have the theoretical **knowledge** and **skills** to be able to implement the applicable principles within a production unit.

19. ADVANCED POULTRY PRODUCTION OS10

OBJECTIVE:

This course is designed for people who have successfully completed the poultry production course and who want to broaden their theoretical knowledge and skills with regard to the production practices of poultry.

APPLICABLE APPLICABLE UNIT STANDARDS (CREDITS):

116164 (2) 116117 (5) 116219 (5) 116055 (7) 116214 (3)

CONTENTS:

Poultry breeds; production cycles; poultry anatomy and physiology; care of poultry during different growth stages; housing and infrastructure; nutrition; health management; record keeping; marketing

OUTCOMES:

The student, who has attended the complete course, should have the theoretical **knowledge** and **skills** to be able to implement and manage the applicable principles within a production unit.

20. INTRODUCTION TO PIG PRODUCTION OS1

OBJECTIVE:

To supply the prospective pig farmer with the theoretical knowledge in order for him/her to make a carefully considered and informed decision in the planning of his/her intended pig production unit.

APPLICABLE UNIT STANDARDS (CREDITS):

116158 (2) 116081 (2)

CONTENTS:

General overview of the South African and international pork industry; market research and marketing requirements; characteristics and needs of pigs (biological features of pigs, the social and structural environment of pigs, the production cycle); production systems; housing facilities; effective management; economic considerations

OUTCOMES:

The student, who has attended the complete course, should have the theoretical **knowledge** and **insight** regarding the principles according to which a pig production unit is based.

21. PIG PRODUCTION OS3

OBJECTIVE:

This course is designed for people who are already farming with pigs as well as those people who have successfully completed the introductory course for pig production (PIG OS1) and who want to broaden their theoretical knowledge and skills with regard to the production practices of a pig unit

APPLICABLE UNIT STANDARDS (CREDITS):

116153 (5) 116107 (5) 116216 (4) 116120 (4)

CONTENTS:

Pig breeds; breeding and selection; production cycle; care of pigs during different growth stages; housing; nutrition; health management; record keeping; marketing and value adding

OUTCOME:

The student, who has attended the complete course, should have the theoretical **knowledge** and **skills** to start a pig unit and be able to implement the applicable principles in the unit.

22. BEEF PRODUCTION OS3

OBJECTIVE:

To provide the theoretical knowledge and practical skills regarding beef cattle farming.

APPLICABLE UNIT STANDARDS (CREDITS):

116158 (2) 116081 (2) 116197 (5) 116074 (5) 116173 (5) 116174 (6)

CONTENTS:

Beef production in the Western Cape; breed types; selection; breeding seasons; animal management; marketing; nutrition; animal health; record keeping

OUTCOMES:

Learners that are certified as competent should have the theoretical and practical **knowledge** and **skills** to apply principles within beef cattle production.

TARGET GROUP:

Any person who plans to start a beef production unit or who wishes to acquire more knowledge regarding the principles related to beef farming. Students must be literate and also be able to do basic calculations on a pocket calculator

23. BOER GOAT PRODUCTION OS3

OBJECTIVE:

To provide students with knowledge and skills in respect of boer goat production practices which will enable them to farm successfully with goats.

APPLICABLE UNIT STANDARDS (CREDITS):

116158 (2) 116637 (2) 116197 (5) 116190 (4) 116191(6) 116164 (2)
116173 (5) 116174 (6)

CONTENTS: Boer goat breeds; selection; nutrition; flock management; mating season; lambing and weaning; health management; preparation of the product for marketing; classing; record keeping

OUTCOMES:

Qualified students will acquire:

- **Knowledge** and **understanding** on managing a flock of boer goat during mating, weaning and lambing.
- **Knowledge** on and **understanding** of nutrition and health management of goats
- **Skills** to implement the different goat farming practices successfully in daily farming operations.

24. OSTRICH PRODUCTION (0-3 MONTHS) OS2

OBJECTIVE:

This course is designed for people who are already farming with ostriches who want to broaden their theoretical knowledge and skills with regard to the production practices of ostriches during the first 3 months.

APPLICABLE UNIT STANDARDS (CREDITS):

116191 (6) 116081 (2) 116164 (2) 116074 (5) 116173 (5)

CONTENTS:

General overview of the South African and international industry; characteristics and needs of ostriches; production cycles; care of ostriches during different growth stages; housing and infrastructure; nutrition; health management; record keeping; marketing

OUTCOMES:

The student, who has attended the complete course, should have the theoretical **knowledge** and **skills** to be able to implement the applicable principles within a production unit.

25. OSTRICH PRODUCTION 3 MONTHS TILL SLAUGHTER OS2

OBJECTIVE:

This course is designed for people who are already farming with ostriches who want to broaden their theoretical knowledge and skills with regard to the production practices of ostriches from 3 months till slaughter.

APPLICABLE UNIT STANDARDS (CREDITS):

116191(6) 116081 (2) 116164 (2) 116074 (5) 116173 (5)

CONTENTS:

General overview of the South African and international industry; characteristics and needs of ostriches; production cycles; care of ostriches during different growth stages; housing and infrastructure; nutrition; health management; product handling (skin, feathered and meat); record keeping; marketing.

OUTCOMES:

The student, who has attended the complete course, should have the theoretical **knowledge** and **skills** to be able to implement the applicable principles within a production unit.

26. SHEEP PRODUCTION OS3

OBJECTIVE:

To provide students with knowledge and skills in respect of sheep production practices which will enable them to farm successfully with sheep.

APPLICABLE UNIT STANDARDS (CREDITS):

116158 (2) 116637 (2) 116197 (5) 116190 (4) 116191 (6) 116164 (2)
116173 (5) 116174 (6)

CONTENTS:

Sheep breeds; selection; nutrition; flock management; mating season; lambing and weaning; health management; preparation of the product for marketing; classing; record keeping

OUTCOMES:

Qualified students will acquire:

- **Knowledge** and **understanding** on managing a flock of sheep during mating, weaning and lambing.
- **Knowledge** on and **understanding** of nutrition and health management of sheep

- **Skills** to implement the different sheep farming practices successfully in daily farming operations.

27. DAIRY PRODUCTION OS10

OBJECTIVE:

To provide students with knowledge and skills regarding dairy production practices.

APPLICABLE UNIT STANDARDS (CREDITS):

116173 (5) 116074 (5) 116219 (5) 116174 (6) 116110 (5) 116207 (6)
116081 (2) 116197 (5) 116117 (5)

CONTENTS:

Dairy breeds; anatomy and physiology; factors influencing milk production; reproduction and calving; calf rearing; nutrition; health Management; milk machines, milking procedure and hygiene; economics of dairy production

OUTCOMES:

Qualified students will have acquired:

- **Knowledge** and **understanding** of calf rearing, rearing replacement heifers and feeding dairy cows at different production stages.
- **Skills** to implement the different dairy farming practices successfully in daily farming operations.

28. ERECTING AND MAINTENANCE OF WIRE FENCING OS5

OBJECTIVE:

To supply the student with the theoretical knowledge and basic skills with regard to the principles of erecting and maintaining wire fences.

APPLICABLE UNIT STANDARDS (CREDITS):

12561 (4)

CONTENTS:

Boundary and/or ordinary fences – important prerequisites; type of fences; fencing material; types of anchors and anchor construction; planting of a pole; fence heights; the unrolling of wires; the stretching of boundary fences; joining and tying of wires; spacing of line poles and droppers; stretch lengths; hanging of gates; safety measures

OUTCOMES:

The student who has attended the complete course, should have

- the basic knowledge and insight with regards to the principles of the erecting and maintenance of wire fences.
- the basic skills to erect and maintain wire fences.

29. METALWORK ON THE FARM OS10

OBJECTIVE:

To supply the student with the theoretical knowledge and basic skills with regard to the principles of shielded metal arc and oxy-acetylene welding and the manual cutting of mild steel.

APPLICABLE UNIT STANDARDS (CREDITS):

9880 (8)

CONTENTS:

Workshop practices; prepare and secure work pieces for welding; shielded metal arc welding; safety measures and legislation; prepare and assemble welding equipment; fundamental principles of arc welding; welding techniques; welding defects; gas welding (Oxy – acetylene); safety measures; prepare and assemble welding equipment; welding of sheet metal; brazing; manual cutting of mild steel

OUTCOMES:

The student who has attended the complete course, should have

- the basic knowledge and insight with regards to the principles of shielded metal arc and oxy-acetylene welding, including the manual cutting of mild steel.
- the basic skills to implement the different principles in their daily farming activities.

30. ROUTINE TRACTOR CARE ON THE FARM OS5

OBJECTIVE:

To supply the student with the theoretical knowledge and basic skills with regard to the principles of routine care of tractors.

APPLICABLE UNIT STANDARDS (CREDITS):

116818 (2)

CONTENTS:

Basic principles of the working of the internal combustion engine; electrical system; air intake system; fuel system; lubrication system; cooling system; clutch; front wheel bearings; brakes; steering mechanism; tyres and tyre pressure; three point system; safety; safe on-farm storage of fuel

OUTCOMES:

The student who has attended the complete course, should have

- the basic knowledge and insight with regards to the principles of routine tractor care.
- the basic skills to implement the various principles of routine tractor care in his/her daily farming activities.

31. FUNCTIONING AND MAINTENANCE OF WINDMILLS OS1

OBJECTIVE:

To supply the student with the theoretical knowledge and basic skills with regard to the construction, routine care, identification of defective/worn parts and the practical repair of windmills.

APPLICABLE UNIT STANDARDS (CREDITS):

No unit standards available yet.

CONTENTS:

Construction (position and function of different components); Routine care (determination of oil level, identify and investigate different points of wear; assessment of scope of reparation); Application maintenance and repair (stroke, cilinder, tower, brake system)

OUTCOMES:

- The student that is assessed as competent, should have sufficient knowledge and skills to easily identify defects on a windmill. He/she should also understand the functioning of a windmill sufficiently to be able to do routine maintenance and partial repair within the scope of his/her capabilities.

32. AGRICULTURAL AWARENESS OS3

OBJECTIVE:

To provide students with the basic knowledge related to the challenges in the farming environment and to make purposeful decisions regarding choices between the different enterprises

APPLICABLE ABET LEVEL 4 (CREDITS):

AGRI 001 (2) AGRI 004 (3) AGRI 005 (7)

CONTENTS:

Choose a crop and / or livestock to farm with; choose a system for operating your farming venture; choose the right practices; choose the right technology; managing your farm; agriculture as a science

OUTCOMES:

On completion of the course, students should have acquired a sound **knowledge** and **understanding** of the challenges a farmer is exposed to in the farming environment and to make purposeful decisions regarding choices between the different enterprises.

33. AGRICULTURAL MARKETING OS3

OBJECTIVE:

To provide students with sound knowledge and skills in respect of the principles

of marketing and marketing practices required to market agricultural products successfully.

APPLICABLE UNIT STANDARDS (CREDITS):

116164 (2) 116126 (2) 116259 (3) 116296 (4)

CONTENTS:

Introduction to marketing; principles of marketing; the concept market; demand and supply of goods and services; market equilibrium; market research; marketing mix; marketing channels and chain; marketing plan and strategy

OUTCOMES:

On completion of the course, students should have acquired a sound **knowledge** and **understanding** of the concept marketing and procedures of marketing agricultural products.

34. FINANCIAL MANAGEMENT OS4

OBJECTIVE:

To equip students with the understanding and knowledge of the fundamental aspects and procedures of financial management in the agricultural environment.

APPLICABLE UNIT STANDARDS (CREDITS):

116159 (2) 116083 (2) 116237 (3) 116319 (3)

CONTENTS:

Introduction to financial management; financial management concepts (income, expenditure profit, etc.); the need for capital within an agri-business; sources of income for agri-business; requirement for a recording system; basic record keeping (Petty Cash and Cash Books); financial Statements (Cash Flow Statement, Income Statement and Balance Sheet); budgeting (Cash flow Budget, Enterprise Budget and Whole Farm Budgeting)

OUTCOMES:

At the end of the course, students are expected to have acquired adequate **knowledge** and **understanding** of financial management procedures and are also expected to have acquired **skills** to perform financial accounting and management successfully.

35. AGRICULTURAL MANAGEMENT OS3

OBJECTIVE:

To provide students with knowledge and understanding of the principles of agricultural management, as well as the necessary skills of managing a farm business successfully.

APPLICABLE UNIT STANDARDS (CREDITS):

116165 (2) 116115 (2) 116218 (3) 116291 (3)

CONTENTS:

Introduction to management; components of the agricultural production environment; factors of production (Land, Labour, Capital and Management); agricultural production systems; managerial Tasks (Planning, Organising, Decision Making and Control); different Levels of Management (Top, Middle and lower management); different management styles (Democratic, autocratic, laissez-fair etc); administrative systems (Communication and information systems)

OUTCOMES:

On completion of the course, students are expected to have sufficient **knowledge** and **skills** in how to manage a farm business and to **understand** agricultural management principles.

36. ENTREPRENEURSHIP OS4

OBJECTIVE:

To equip students with knowledge and an understand of the fundamental aspects and procedures of starting a new business

APPLICABLE UNIT STANDARDS (CREDITS):

10006 (2) 12631 (7) 10385 (5)

CONTENTS:

The concept Entrepreneurship; the importance of entrepreneurship in South Africa; characteristics of a successful entrepreneur; business ethics and social responsibility; different type of businesses; selection of a good farm business idea; farming operation plan (FOP); importance of a Business Plan; components of a business Plan (Production Plan, Marketing Plan, Financial Plan etc); risk identification and management in farming

OUTCOMES:

At the end of the course, students are expected to have achieved adequate knowledge and understanding of entrepreneurship, as well as entrepreneurship skills to start a new winning business.

37. COMMUNICATION OS3

OBJECTIVE:

To provide the student with the necessary knowledge and skill in respect of communication in order to ensure that they can communicate effectively

APPLICABLE UNIT STANDARDS (CREDITS):

7530 (4) 114999 (6) 115001 (6) 114967 (6)

CONTENT:

The objective and medium of communication; the different ways of communication; effective ways of having a conversation

OUTCOMES:

Qualified students will acquire:

- Knowledge and understanding of communication structures, conventions and language to communicate effectively
- Skills to communicate verbally and non-verbally with confidence
- Knowledge and skill to use written and verbal communication where necessary

38. CONFLICT MANAGEMENT OS2

OBJECTIVE:

To provide students with the necessary knowledge and skills to handle conflict effectively in any given situation

APPLICABLE UNIT STANDARDS (CREDITS):

9533 (3)

CONTENT:

Identify different conflict situations; identify conflict situations in the workplace; the difference between feelings and actual problems; how to handle conflict

OUTCOMES:

Qualified students will acquire:

- The necessary knowledge and understanding to identify conflict situations
- The necessary knowledge and understanding to differentiate between feelings and actual problems
- The necessary knowledge and skills to demonstrate how to resolve conflict situations effectively

39. LEADERSHIP OS3

OBJECTIVE:

To provide the student with the necessary knowledge and skills to lead a team effectively

APPLICABLE UNIT STANDARDS (CREDITS):

13912(5) 15237 (3)

CONTENT:

Different role players in a group / group dynamics; the role / function of the leader in a group; characteristics and skills of an effective leader; conflict Management in a group; encouraging participation in decision-making; the importance of delegating tasks; developing a plan of action to enhance team performance

OUTCOMES:

Qualified students will acquire:

- knowledge and understanding of him/herself as a role player in a group
- the necessary knowledge and understanding of group dynamics and leadership skills
- the necessary knowledge and skills to enhance team performance
- the necessary knowledge and skills to lead a team through shared decision-making, resolving conflict, delegating tasks and motivating team members to greater performance

40. LIFE ORIENTATION OS4

OBJECTIVE :

To provide the student with the necessary knowledge, life skills and self confidence to play a significant role in society

APPLICABLE UNIT STANDARDS (CREDITS):

7503 (2) 11813 (3) 14659 (4)

CONTENT:

- Knowledge of self (Me as an individual; My role in the community)
- Life Skills (Self image; Self management; Goal Setting; Thinking Skills; Time Management; Listening Skills; Problem Solving; Decision making; Studying Skills; Assertiveness; Career Planning)
- A Healthy Lifestyle

OUTCOMES:

Qualified students will have acquired:

- The necessary knowledge and skills to manage his/her life efficiently
- The necessary knowledge and skills to make an informed life decision
- The necessary knowledge and understanding to live a healthy lifestyle

41. MOTIVATION OS3

OBJECTIVE:

To provide the student with the necessary knowledge and understanding in respect of the importance of motivation and skills needed to motivate himself/herself and a team to greater achievements

APPLICABLE UNIT STANDARDS (CREDITS):

13947 (6)

CONTENT:

The importance and role of motivation; motivation theories; motivation techniques; participation in decision making; leadership and motivation; the importance of feedback and recognizing achievement

OUTCOMES:

Qualified students will acquire:

- the necessary knowledge and understanding about the importance of self motivation and motivating a team
- the necessary knowledge in respect of the theories of motivation
- the necessary knowledge and skills to demonstrate how to apply the theories and techniques of motivation
- the necessary skills to indicate how a team leader can empower a team and enhance team performance

42. MEETING PROCEDURES OS2

OBJECTIVE:

To provide the student with the necessary knowledge, understanding and skills in respect of planning, organizing and conducting meetings

APPLICABLE UNIT STANDARDS (CREDITS):

13934 (4) 13914 (3)

CONTENT:

Planning an effective meeting; the purpose and objective of the agenda of meetings; the purpose and objective of minutes of meetings; taking minutes of meetings; how to handle conflict in a meeting; lead the post meeting follow-up

OUTCOMES:

Qualified students will acquire:

- the necessary knowledge and understanding of planning a meeting
- an understanding of the purpose and objective of the minutes of a meeting
- the necessary knowledge and skills to take minutes in a meeting
- the necessary skills to resolve conflict in a meeting
- the necessary knowledge and skills to conduct an effective meeting

OTHER SKILLS COURSES

43. ANALYSIS COURSE: Fruit, Grapes and Wine

OBJECTIVE:

To equip all participants with the relevant theoretical knowledge and practical skills to analyse fruit, grapes and wine and observe deviations in results

APPLICABLE UNIT STANDARDS (CREDITS):

A literacy and numerical skill equal to Grade 10 is required

CONTENT:

- Maturity Indexing & Quality Determination: Stonefruit
- Maturity Indexing & Quality Determination: Pomefruit
- Internal Quality Determination & Defect Identification: Table grapes

- Internal Quality Determination: Wine grapes
- Analysis of wine quality
- Safe use of laboratory equipment and chemicals

44. GREENHOUSE MANAGEMENT

COURSE CONTENT:

- History of the Industry
- Types of Greenhouses
- Growth mediums
- Management of unit
- Crop protection
- The Industry
- Different systems
- Crops
- Irrigation and fertilisation
- Harvesting and marketing

COURSE DURATION:

3 days

TARGET GROUPS:

Producers and prospective producers

LEARNERSHIP PROGRAMME

General information

What do we offer?

- CIAT offers the **NATIONAL CERTIFICATE IN PLANT PRODUCTION NQF LEVEL 1 AND/OR LEVEL 4, as well as the NATIONAL CERTIFICATE IN FARMING NQF LEVEL 2** in the following study fields:
 - Viticulture
 - Vegetables
 - Fruit Production
 - Animal Production**

**Where Poultry Production is chosen as study field, the relevant Qualification will be used.

- For unemployed learners we can act as “employer” for the duration of the learnership
- We also offer **accommodation** (*if needed*) for the duration of the learnership.

When do we want applications?

Applications must be submitted on the prescribed application form not later than 30 November of the preceding year. Applicants will be selected and successful candidates will be notified by mail.

What is a learnership?

A learnership is a learning programme that leads to an occupational qualification. Learnerships include classroom-based learning at the Institute and on-the-job training in the workplace. For you to participate in a learnership there must be an employer willing and able to provide the work experience.

How much will it cost?

There is no charge for a person undergo on a learnership. Learnerships are funded by the SETA (in this case the AgriSETA).

How long does it take?

The duration of a learnership is one year.

Who are those involved in the learnership and what are their roles?

- The **learner** is placed in a learnership, signs a legal agreement with an employer, stating the rights and responsibilities of the learner, and follows the learning programme.
- The **employer** provides the work experience part of the learnership and signs the same legal agreement stating the employer's rights and responsibilities, including agreements on the level of the learnership allowance.
- **Training providers** provide the training on behalf of the employer and sign the same legal agreement stating the training provider's rights and responsibilities
- **A Sector Education and Training Authority (SETA)** organises and facilitates the funding of learnerships in a specific area of the economy (for example transport, or tourism and hospitality, or agriculture), and ensures that the training is up to industry standard (quality assurance).
- **The Department of Labour** recruits, selects and refers unemployed people who meet the minimum criteria for a particular learnership to employers looking for learners. The employer makes the final decision.

What will I get at the end of the learnership?

If the learnership is completed successfully you will have a qualification that is recognised throughout the country. To prove that you have the qualification you will be given a certificate. This certificate will describe the skills that you have learnt.

Will I get a job after completing the learnership?

If you are unemployed when you start your learnership, there is no guarantee of a job at the end. The employer who provides you with training does not have to offer you a job. However, with a qualification and work experience you will be in a better position to obtain employment than before. You might also want to think about getting more qualifications or starting up a business on your own.

For further information contact:

Jackie Beerwinkel (Coordinator: Learnerships)
Tel: +27 21 808 5452 Cell: +27 82 808 0989
Email: jackieb@elsenburg.com

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	QUALIFICATION TITLE
48970	National Certificate: Animal Production

MINIMUM CREDITS	NQF LEVEL
120	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.