

Structured Training Programmes



agriculture

Department:
Agriculture
REPUBLIC OF SOUTH AFRICA



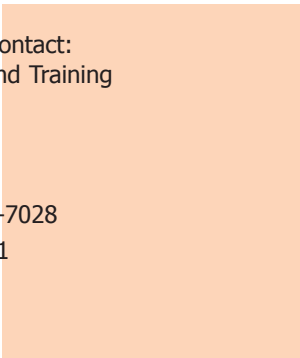

Structured Training Programmes

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Foreword

The purpose of this document is to provide available training programmes offered by various public institutions, which are registered with SAQA, and accredited by Sector Education and Training Authorities (SETAs). The document itself seeks to respond to the concerns that have been raised by various stakeholders who have been calling for available training programmes to support skills development in the sector.

It covers diversified training needs from role-players such as emerging farmers, commercial and small scale farmers and for the benefit of different members of community (youth, women and people with disabilities), farmworkers, and other role-players in the sector. The document provides information on available qualifications, learnerships and skills programmes. When it comes to skills programmes the document provides information on the name of the course, institution presenting the course, contents of the course, duration, cost of each course being offered and contact details of each institution. Admission to any training programmes can be discussed with service providers directly.

The Directorate Education and Training, in support of the Comprehensive Agriculture Support Programme (CASP), acknowledges that to establish a strong agricultural sector there is a need for well-structured training programmes, which are relevant and responsive to the needs of stakeholders. It is critically important to provide capacity building as a support package, to ensure that clients are able to manage their farming enterprises in a sustainable manner, through skills development.

It is in this context that the DoA presents the comprehensive collection of agriculture-related training programmes to support capacity building in the sector by presenting available structured skills programmes within the reach of our clients.

These structured training programmes with the exception of the listed qualifications and learnerships are available from accredited agricultural training institutions including the Agricultural Research Council and colleges of agriculture. It is also important to note that not all skills programmes are registered on a unit standard base, however, it is worth noting that all the institutions that have not aligned their training programmes have started the process of alignment.

Finally it is acknowledged that some more work still needs to be done in terms of capturing those training programmes relevant to the needs of the sector which currently are still being developed. This document will be revised on an annual basis. Presently the Directorate Education and Training in partnership with the Primary Agriculture Education and Training Authority (PAETA) is developing training manuals for qualifications in farming and agri-business. Central to the process are the colleges of agriculture through the Association of Principals of Agricultural Colleges (APAC). The level of the qualifications is ranging from the NQF level 1 to NQF level 5. In total there are 12 certificates in farming and agri-business already developed by the PAETA in consultation with all the agricultural education stakeholders in the sector. It is envisaged that from 2007 onwards various service providers will seek accreditation from PAETA to offer those qualifications, as they are more comprehensive compared to the currently available training programmes. In terms of the Service Level Agreement between the DoA and PAETA, the training manuals will focus on best practices in farming and will be available to the beneficiaries of agrarian reform on a cost recovery basis.

Stakeholders and members of the public in general should note that the aim of the document is only to make information available to the public and it is not intended to promote any particular organisation, including courses offered by these particular organisations. Service providers not listed are invited to submit their information to the Directorate Education and Training at any particular moment in time.

I sincerely hope you will find the information contained in this document useful.

Mkhululi Mankazana

SENIOR MANAGER: EDUCATION AND TRAINING

Section 1

Introduction

This document has been compiled as the result of a request from different stakeholders on available and accredited training programmes that are mainly designed to address the needs of the emerging sector.

The Directorate Education and Training has been inundated with requests from members of the public on available and accredited training programmes. The major interest has been on training programmes that have been designed to support the needs of the emerging sector.

A desktop study coupled with telephone discussions with the managers of various institutions responsible for training was conducted. Information collected was verified with the record of qualifications database in the South African Qualifications Authority (SAQA). Information collected is grouped into three main categories namely: qualifications, learnerships and skills programmes.

Overview of the programmes recorded

The data is broken down into three main categories, namely qualifications, learnerships and skills programmes registered with SAQA and accredited by the three Agricultural Aligned SETAs. It should be noted, however, that it is only the Primary Agriculture Education and Training Authority (PAETA), which is having a list of accredited qualifications. The other two SETAs namely Sector Education and Training Authority for Secondary Agriculture (SETASA) and Food and Beverages (FoodBev) have only managed to develop and register learnerships.

All the registered qualifications and learnerships are not offered by any of the public institutions except structured skills programmes. In addition the development of qualifications and learnerships is at the unit standard level, i.e. no course content has been developed to date and there are no training manuals available.

The skills programmes (short courses) offered by the public institutions are not in compliance with the unit standards and NQF, however, an agreement was reached with SAQA that institutions will be given time to align their programmes.

Section 2

Accredited qualifications, learnerships and skills programmes

Qualifications

TABLE 1 Comprehensive list of accredited qualifications is provided in

SETA	Qualifications	NQF level
PAETA	National Certificate: Animal Production	1
	National Certificate: Mixed Farming Systems	1
	National Certificate: Plant Production	1
	National Certificate: Animal Production	2
	National Certificate: Mixed Farming Systems	2
	National Certificate: Plant Production	2
	National Certificate: Animal Production	3
	National Certificate: Plant Production	3
	National Certificate: Plant Production	4
	National Certificate: Animal Production	4
	National Diploma: Animal Production	5
	National Diploma: Plant Production	5

Learnerships

TABLE 2 Comprehensive list of accredited learnerships

SETA	Learnership	NQF level
PAETA	Farmworker: Agronomy	1
	Farmworker: Animal Husbandry	1
	Farmworker: Horticulture	1
	Farmworker: Agronomy	1
	Farm Owner: Animal Husbandry	1
	Farm Owner: Animal Horticulture	1
	Farm Owner: Farming	2
	Junior Farm Manager	4
Senior Farm Manager	5	
SETASA	Learnership: Agricultural Machinery Technician	2
	Learnership in Grain Handling Processes	2
	Sugar Industry Technical Maintenance Worker	2
	National Certificate in Sugar Technology Processing: Sugar Refining	2
	National Certificate in Sugar Technology Processing: Juice Preparation	2
	National Certificate in Sugar Technology Processing: Crystallisation	2
	National Certificate in Sugar Technology Processing: Laboratory Practice	2
	National Certificate in Sugar Technology Processing: Extraction	2
	National Certificate in Sugar Technology Processing: Cleaning of Grain	2
	National Certificate in Sugar Technology Processing: Cleaning of Grain	2
	National Certificate in Sugar Technology Processing: Prepare Wheat for Milling	2
	National Certificate in Tobacco Production	3
	National Certificate in Cigarette Filter Rod Production	3
	National Certificate in Metalised Paper Production	3
	Seed Research and Development Operations: Apply Basic Business Principles	3
	Seed Research and Development Operate in a Team	3
	National Certificate: Seed Processing and Packaging: Operate in a Team	3
	National Certificate: Seed Analysis: Test the Vigour of Seed	3
	National Certificate: Sample Seed	3
	National Certificate: Dry Pet food Processing (Food Safety/Ingredient Storage)	3
	National Certificate: Dry Pet Food Processing (Automated Filling)	3
	National Certificate Dry Pet Food Processing (Automated Batch Coating)	3
	National Certificate: Fruit Packaging and Grading Process Level 3	3
	Learnership in Agri Sales and Services	4
	National Certificate: in Tobacco Services	4
	National Certificate: in Cigarette Production Technology	4
	National Certificate: in Cigarette Production Technology	4
	Further Education and Training Certificate: Seed Production	4
	Further Education and Training Certificate: Seed Production: Dry Seed	4
	Further Education and Training Certificate: Seed Production: Store Seed	4
	Further Education and Training Certificate: Seed Marketing: Execute Seed Trials	4
	Further Education and Training Certificate: Seed Research and Development: Certify a Seed Unit	4
	FETC: Seed Research and Development: Conduct a Field Inspection of a Seed Unit	4
	Further Education and Training Certificate: Seed Processing and Packaging Control:	4
	Further Education and Training Certificate: Seed Processing and Packaging Control	4
	Learnership in Grain Handling Management	5
Learnership in Specialist Agricultural Machinery Technician	5	
Certificate in Practical Management	5	
National Certificate in Sugar Technology	5	

TABLE 2 (Continued)

SETA	Learnership	NQF level
FOOD BEV	National Certificate: Food and Beverages Processing: Soft Drinks Processing	3
	National Certificate: Food and Beverages Manufacturing Technology: Spray Dried Food Products	3
	National certificate: Food and Beverages Processing: Soft Drinks	3
	National Certificate: Food and Beverages Packaging	3
	National Certificate: Food and Beverages Processing Oil Milling Processing	3
	National Certificate: Food Beverages Processing: Dairy Primary Processing	3
	National Certificate: Flour Confectionery Baking	3
	National Certificate: Food and Beverages Processing Wine	3
	National Certificate: Food and Beverages Processing: Brewing Processing	3
	National Certificate: Food and Beverages Processing: Fish and Sea Food	3
	National Certificate: Food and Beverages Processing: Oil and Fat-based Products Processing	3
	National Certificate: Food Laboratory Processes: Dairy Laboratory Analyst	3
	National Certificate: Food and Beverages Processing: Malting Processing	3
	National Certificate: Food Beverages Processing: Spirits Processing	3
	National Certificate: Food Beverages Processing: Meat Processing	4

Skills programmes

A comprehensive list of various public institutions offering skills programmes is provided in the list below.

- Agricultural Research Council
- Cedara College of Agriculture
- Elsenburg College of Agriculture
- Fort Cox College of Agriculture
- Glen College of Agriculture
- Grootfontein Agricultural Development Institute
- Lowveld College of Agriculture
- Madzivhandila College of Agriculture
- Owen Sitole College of Agriculture
- Potchefstroom College of Agriculture
- Tompi Seleka College of Agriculture
- Tsolo College of Agriculture

Section 3

Comprehensive skills programmes and agricultural institutions

Agricultural Research Council

After completion of the courses mentioned below, the participants will either be awarded a certificate of competency or a certificate of attendance.

Wheat production

OBJECTIVE	The course deals with the basic methods of wheat production
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Soil acidity, understanding soil analysis, fertilisation of wheat, identification of insects, pests and diseases, guidelines for cultivar choice

DURATION	3 days
FINANCIAL IMPLICATIONS	R245 per participant for tuition, R750 per participant for accommodation, R105 per participant for meals

Crop production

OBJECTIVE	The course deals with the basic methods of crop production on a large and small scale
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Soil preparation, use of fertilisation, identification of disease and pest control
DURATION	2 days
FINANCIAL IMPLICATIONS	R1 130 per participant for tuition, R500 per participant for accommodation, R70 per participant for meals

Maize and dry bean production

OBJECTIVE	The course deals with new methods of production practices, nutrition and fertilisation of crops
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Soil preparation, hygiene, use of fertilisation
DURATION	2 days
FINANCIAL IMPLICATIONS	R416 per participant for tuition, R500 per participant for accommodation, R70 per participant for meals

Technical and production

OBJECTIVE	The course deals with the skills needed to bring economic growth and enables farming communities to excel. The technical, managerial and social skills necessary for effective extension work have been taken into account
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Crop production management, cropping systems, how to plant a trial, alternative production strategies
DURATION	3 days
FINANCIAL IMPLICATIONS	R185 per participant for tuition, R750 per participant for accommodation, R105 per participant for meals

Yoghurt making/"maas" and "maaskaas"

OBJECTIVE	The course deals with the basic methods of yoghurt, "maas" and "maaskaas" production
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Microbiology, general hygiene, starter cultures, sensory evaluation of dairy products
DURATION	2 days
FINANCIAL IMPLICATIONS	R900 per participant for tuition, R500 per participant for accommodation

Cheese making

OBJECTIVE	The course deals with the basic methods of cheese making
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Milk composition, microbiology, hygiene, starter-cultures

DURATION 4 days
FINANCIAL IMPLICATIONS R1 400 participant for tuition, R1 000 per participant for accommodation

Goat management

OBJECTIVE The course deals with the basic management of goats in a farming business

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Nutrition, health management, housing

DURATION 5 days

FINANCIAL IMPLICATIONS R1 500 per participant for tuition, R1 250 per participant for accommodation, R175 per participant for meals

Beef cattle management

OBJECTIVE The course deals with the reproduction and principles of feeding beef cattle

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Beef cattle breeds in SA, the feedlot system, marketing, record keeping, breeding objectives and factors influencing it, selection of herd sires for beef production, selecting cattle for functional efficiency, health management, supplementary feeding, introduction to beef cattle improvement schemes, demonstrations of dosing, dehorning and castration, management of veld grazing, introduction to LIDCAT and genetic services

DURATION 3 days

FINANCIAL IMPLICATIONS R1 200 per participant for tuition, R750 per participant for accommodation, R105 per participant for meals

Poultry production

OBJECTIVE The course deals with the basic principles of the poultry production cycle, i.e. from the ordering of chickens until they start producing eggs

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Introduction to poultry industry, farming systems, poultry housing, basic equipment, care and rearing of chicks, care of pullets, care of laying hens, litter and manure handling and fly control, practical on poultry breeding, record keeping, egg quality, nutrition, identifying diseases, postmortems, immunisation

DURATION 3 days

FINANCIAL IMPLICATIONS R1 200 per participant for tuition, R1 000 per participant for accommodation, R140 per participant for meals

Sheep management

OBJECTIVE The course deals with the basic principles of sheep management

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: All areas of sheep management

DURATION 4 days

FINANCIAL IMPLICATIONS R1 200 per participant for tuition, R1 000 per participant for accommodation, R140 per participant for meals

Pig production

OBJECTIVE	The course deals with the pig production cycle, i.e. from weaning until they are ready to be sold
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Basic genetic principles, breeds and breeding programmes, nutrition, pig housing, economic principles, management in the farrowing house, management from weaning to marketing, record keeping, reproduction of pigs, practical reproduction management, selection of pigs, pork classification systems, pork as a product, shower and veterinary aspects
DURATION	3 days
FINANCIAL IMPLICATIONS	R1 200 per participant for tuition, R750 per participant for accommodation, R105 per participant for meals

Dairy cattle management

OBJECTIVE	The course deals with basic methods of milk production
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Dairy cattle breeds, health management, basic housing principles and planning a dairy unit, functional effectiveness of a dairy cow, management of dairy replacement cows, feeding of lactating cows, genetic principles and selection, profitable milk production, marketing, reproduction management, introduction of dairy courses, milking machines and cleaning, record keeping, short note on silage, basic implements, introduction of milk recording, introduction to LIDCAT
DURATION	3 days
FINANCIAL IMPLICATIONS	R1 200 per participant for tuition, R750 per participant for accommodation, R105 per participant for meals

Sheep production

OBJECTIVE	The course deals with the basic methods of sheep production, i.e. from weaning until they are ready to be sold
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: General health management, breed and stock selection, housing and handling facilities, rams and ewes before mating, mating, lambing time, lambs, weaning, dry ewes
DURATION	4 days
FINANCIAL IMPLICATIONS	R1 200 per participant for tuition, R1 000 per participant for accommodation, R105 per participant for meals

ARC—Animal Nutrition and Animal Products Institute
Private Bag X2
IRENE
0062
Tel (012) 672-9153
Fax (012) 665-1563

Cedara College of Agriculture

After completion of the courses mentioned below, the participants will either be awarded a certificate of competency or a certificate of attendance

NB: Trainees are advised to arrange their own accommodation and meals

Vegetable production

OBJECTIVE	The course deals with basic planning and management of vegetables
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Cultural practices, cultivars, irrigation, pest, disease and weed control measures, economics of production, marketing
DURATION	3 days
FINANCIAL IMPLICATIONS	R300 per participant for tuition only

Effective public speaking

OBJECTIVE	The course deals with the techniques of public speaking in the workplace
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Criteria of effective spoken communication, the difference between prepared and impromptu presentation, importance of impromptu presentation, importance of evaluation (how to deliver and implement it), how to add impact to the spoken presentation, why use visual aids? Criteria of effective visual aids, design, preparation and use of visual aids, overcoming barriers to effective communication, how to overcome nervousness, addressing the concerns of participants in respect of public speaking
DURATION	5 days
FINANCIAL IMPLICATIONS	R225 per participant for tuition only

Crop production

OBJECTIVE	The course deals with the practical factors in crop production and appropriate technology for small-scale farmers
CONTENT	To offer participants the practical learning experience, the following three kinds of crops will be discussed in detail: Maize, potatoes, dry beans
DURATION	4 days
FINANCIAL IMPLICATIONS	R420 per participant for tuition only

Beef production

OBJECTIVE	The course deals with the practical factors of beef production
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Risk management in beef production, e.g. drought, herd composition, fodder bank, collapsing of the beef herd, e.g. reducing conception rate and weaning mass, alternative weaning season, what is BLUP?, economics in beef production, future of the beef industry, what feed-lots want from beef farmers, applied low-cost beef production, condition scoring practical
DURATION	1 day
FINANCIAL IMPLICATIONS	R50 per participant for tuition only

Pig production

OBJECTIVE	The course deals with the practical factors of pig production
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Introduction to the pig industry, i.e. local and global, pig breeds, management of the sow, management and selection of the boar, service management, management and selection of replacements, dis-

ease control of economically important diseases, management of piglets, nutrition, marketing, record keeping and use

DURATION 1 day

FINANCIAL IMPLICATIONS R210 per participant for tuition only

Soil fertility

OBJECTIVE The course deals with the practical principles of soil fertility and plant nutrition that affect decision making with respect to fertilisation and liming

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: When does liming pay? Why should we test our soil? Why is nitrogen difficult to manage? How does phosphorus fixation affect my fertilisation programme? When should we use organic fertilisers? How do I interpret soil test results? How do I work out which fertilisers to buy?

DURATION 3 days

FINANCIAL IMPLICATIONS R270 per participant for tuition only

Rural radio broadcasters course

OBJECTIVE The course aims to help rural broadcasters in identifying and recording material and interviews for broadcast on both community radio stations and the SABC. The trained broadcasters will be expected to work in close proximity to the community radio stations that could best meet the needs of the farming community

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Networking in the community and how to select items for recording, how to write a script and edit it, importance of knowing your recorder, script reading, what makes a good interview, how to conduct interviews, documentation and storage, how to get the most out of your field recorder, using sound effects to best advantage, how to overcome nervousness

DURATION 2 days

FINANCIAL IMPLICATIONS R225 per participant for tuition only

The bioresource programme: land assessment support system

OBJECTIVE The course deals with the diversity of natural resources of KZN

CONTENT To offer participants practical learning experience, the course covers the following learning areas: The interpretation of BRU inventories for optimising land-use of the province, limitation of the programme: as well as value of this information for planning, familiarisation with the relevant computer programs for accessing data and mapping facilities, market price and cost, practical exercises to apply resource information

DURATION 2 days

FINANCIAL IMPLICATIONS R200 per participant for tuition only

Training poster module

OBJECTIVE The course deals with the development of extension training modules.

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: The elements of an Extension Training Module, compiling scientifically correct, factual extension information for the develop-

ment of a module, condensing the information to limited facts for a student work book, condensing the limited facts to least text facts for a poster module, visualising the information in clear graphic form, be it stick figure cartoons, magazine pigs, photos or verbal descriptions, for the benefit of illiterate or neoliterate students, basics of poster design, the editing and proofing process, the translation process, reproduction process, field testing and implementation, monitoring and evaluation

DURATION 3 days
 FINANCIAL IMPLICATIONS R120 per participant for tuition only

Marketing

OBJECTIVE The course deals with the basic principles and approaches of marketing.
 CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Introduction to marketing, marketing mix, market prices and costs, market strategies, commodity marketing, marketing and government—functional and organisational issues

DURATION 4 days
 FINANCIAL IMPLICATIONS R370 per participant for tuition only

Farm record keeping

OBJECTIVE The course deals with the theoretical and practical knowledge required for keeping of records needed for farm business management. This includes a brief introduction to an elementary record book for farmers and to the FIN-REC computerised record-keeping system
 CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Farm information, balance sheets, income and expenditure statements, cash flow summaries, bank reconciliation statements

DURATION 3 days
 FINANCIAL IMPLICATIONS R350 per participant for tuition only

Dairy production

OBJECTIVE The course deals with feeding and management principles of dairy cattle.
 CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Feeding and dairy cow, dairy heifer rearing, dairy herd record keeping, reproduction management, milking machines and cow byre routine

DURATION 3 days
 FINANCIAL IMPLICATIONS R30 per participant for tuition only

Soil classification and land capacity

OBJECTIVE The course deals with the identification of common soil, ecotope and potential assessment and land capacity classification
 CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Soil classification, the properties of soil, agricultural potential of soil, including ecotope identification, land capacity classification

DURATION 3 days
 FINANCIAL IMPLICATIONS R290 per participant for tuition only

Yoghurt making

OBJECTIVE	The course deals with the manufacturing of yoghurt
CONTENT	To offer participants practical learning experience, the course covers the following learning areas: Maas, butte milk, feta cheese, cottage cheese on a small scale
DURATION	3 days
FINANCIAL IMPLICATIONS	R120 per participant for tuition only

Cultivated pastures

OBJECTIVE	The course deals with the basics of cultivated pastures, including practical and theoretical aspects
CONTENT	<p>To offer participants the practical learning experience, the course covers the following learning areas:</p> <p><i>Theoretical</i></p> <p>What are grasses and legumes and how do they grow? Annual and perennial species, selecting pasture species for KwaZulu-Natal, seed quality and seed testing, establishing pastures—soil sampling, seedbed preparation, sowing/planting, irrigation, utilising pastures—grazing, hay/silage, foggage, fertilisation, problems on pastures</p> <p><i>Practical</i></p> <p>Weeds in pastures, implements, soil sampling, land preparation, fertilising, planting, hay/silage/foggage, electric fencing</p>
DURATION	2 days
FINANCIAL IMPLICATIONS	R180 per participant for tuition only

Hay and silage making

OBJECTIVE	The course deals with the introduction to hay and silage making
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Suitable species and cultivars, daily field husbandry, fertilisation, appropriate herbicides and their application, economic considerations, principles of hay/silage making, frequently encountered problems
DURATION	Course presented on request
FINANCIAL IMPLICATIONS	R170 per participant for tuition

Beekeeping

OBJECTIVE	The course deals with the basic introduction to beekeeping, with hives being examined and equipment demonstrated.
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: The functioning of a hive, commercial and developing farmer beekeeping, apiary sites and protection, the equipment required, the management of bees, the honey flow, harvesting the crop, marketing honey and honey products, pollination services, bee diseases and problems
DURATION	2 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition

Farm business management

OBJECTIVE	The course deals with the theoretical and practical methods needed to manage a farm business. There will be a demonstration of how such information and techniques involved, are analysed
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Determine whether the farm is making a profit or a loss
DURATION	4 days
FINANCIAL IMPLICATIONS	R370 per participant for tuition only

Equine nutrition

OBJECTIVE	The course deals with the basics of equine nutrition with the focus on getting the most from home-grown feeds. A visit to the local stud farm, that makes good use of pastures and home-grown feeds, is included in the course
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Excluding stud feeds, the cost of which is a bit like asking how long a piece of string is, many myths and truths about the fertilisation and management of pastures and suitability of home-grown feeds, such as maize silage for horses
DURATION	2 days
FINANCIAL IMPLICATIONS	R300 per participant for tuition only

Map reading

OBJECTIVE	The course deals with the basic methods of map reading
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Map reading, practical exercise relating to each lecture
DURATION	3 days
FINANCIAL IMPLICATIONS	R270 per participant for tuition only

Soya-bean processing

OBJECTIVE	The course deals with the basic processing methods of soya-beans
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Basic home processing, uses of soya for human consumption, dry soya-bean cooking methods and homemade soya-milk
DURATION	1 day
FINANCIAL IMPLICATIONS	R90 per participant for tuition only

Small-stock production

OBJECTIVE	The course deals with the basic principles of sheep and goat farming and covers both theory and practical
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Sheep and goat production in KwaZulu-Natal, general nutrition of sheep, veterinary aspects of sheep and goats, sheep and goat management calendars, management of lambing and kidding, wool and meat production, facilities, sheep and goat farming problems, economics of sheep and goat production, practical session

DURATION 3 days
FINANCIAL IMPLICATIONS R300 per participant for tuition only

Farming systems approach

OBJECTIVE The course deals with the basic farming systems approach

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Rationale and challenges, concepts, definition and overview of FSA steps, steps involved in FSA to transfer and development of technology, diagnostic stage, problem analysis and selection of interventions, planning and implementation of research intervention, statistical analysis, economic evaluation, farmer evaluation, technology dissemination, monitoring, evaluation and impact assessment, evolving participatory methods and techniques involving farmer field schools, participatory extension approaches, participatory rural appraisals and participatory impact monitoring

DURATION 3 days
FINANCIAL IMPLICATIONS R150 per participant for tuition only

Entrepreneurial course

OBJECTIVE The course deals with the basic farming systems approach

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: The business idea, market research and raising finance, planning and developing a business plan, building entrepreneurial skills, marketing and sales, customer relations and managing staff, negotiating and managing finance, keeping financial records and basic bookkeeping

DURATION 5 days
FINANCIAL IMPLICATIONS R350 per participant for tuition only

Irrigation

OBJECTIVE The course deals with the basic introduction into irrigation planning, including examination of soil, crops, the effect of climate on irrigation systems and irrigation planning. The course is based on sprinkler irrigation

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: View of different systems, water measurement, system energy maintenance, economics and scheduling

DURATION 4 days
FINANCIAL IMPLICATIONS R350 per participant for tuition only

Small-scale dairying

OBJECTIVE The course deals with the nutritional and management of factors affecting the running of a small dairy herd, including zero-grazing to grazing systems

CONTENT To offer participants practical learning experience, the course covers the following learning areas: Cross-breeding, basic nutrition, supplementary feeding, calf rearing, milking and milk handling

DURATION 1 day
FINANCIAL IMPLICATIONS R80 per participant for tuition only

Barley and wheat

OBJECTIVE	The course deals with crop production aimed at extension, general input suppliers (chemicals, seeds and fertilisers) and farmers in general. All aspects relating to production of these crops by both small-scale and commercial farms, will be dealt with
CONTENT	To offer participants practical learning experience, the course covers the following learning areas: Soil conservation, nutrition of the crop, efficient use of manure and fertiliser, animal/tractor drawn implements and other equipment, crop establishment practices, crop rotation, wheat control, harvesting and planning, budgeting, financing, marketing value adding options
DURATION	4 days
FINANCIAL IMPLICATIONS	R240 per participant for tuition only

Agricultural extension

OBJECTIVE	The course deals with the practical aspects of agricultural extension services
CONTENT	To offer participants practical learning experience, the course covers the following learning areas: Concepts and practices of agricultural extension, history and philosophy of agricultural extension, components of extension services, delivery systems, the process of communication and change, the diffusion and adoption of innovations, development and management of an extension programme for the community
DURATION	5 days
FINANCIAL IMPLICATIONS	R450 per participant for tuition only

Game management

OBJECTIVE	The course deals with the basic principles of game management
CONTENT	To offer participants practical learning experience, the course covers the following learning areas: Vegetarian management, game species selection, fencing, water distribution, roads and other infrastructural requirements
DURATION	3 days
FINANCIAL IMPLICATIONS	R300 per participant for tuition only

Veld management

OBJECTIVE	The course deals with the ecological study of the veld and interaction on vegetation, grazers, browsers and veld condition assessment
CONTENT	To offer participants practical learning experience, the course covers the following learning areas: common soils and their characteristics
DURATION	3 days
FINANCIAL IMPLICATIONS	R360 per participant for tuition only

Alien plant control

OBJECTIVE	The course deals with alien weeds suitable for working of water contracts
CONTENT	To offer participants practical learning experience, the course covers the following learning areas: Field practical training involving weed identification, method of control, safety, rehabilitation practices, examination
DURATION	5 days
FINANCIAL IMPLICATIONS	R950 per participant for tuition only

Research methodology

OBJECTIVE	The course deals with the basic research methods
CONTENT	To offer participants practical learning experience, the course covers the following learning areas: Basic concepts of experimental design, data management, planning and establishing of a trial, variables and their levels (choice of site and field layout), site selection in farmer participatory trials, confidence and significance (key concepts of inferential), field plot plans, practicalities of laying out plots and preparing trials, basic guidelines for planting soya-bean, dry bean and maize experiments, irrigation and application of agro-chemicals, field notebook and record keeping, harvesting (subsampling and yield determination), statistical analysis, data manipulation and interpretation, informative presentation of tables, graphs and statistics, report writing
DURATION	2 days
FINANCIAL IMPLICATIONS	R140 per participant for tuition only

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Elsenburg College of Agriculture

After completion of the courses mentioned below, the participants will either be awarded a certificate of competency or a certificate of attendance

Introduction to poultry production

OBJECTIVE	The course deals with theoretical knowledge needed to make informed decisions in the planning of intended poultry production unit
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: 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 for poultry, production cycles, production systems, housing facilities, effective management and economic considerations
DURATION	1 day
FINANCIAL IMPLICATIONS	R70 per participant for tuition and R140 for accommodation and meals

Introduction to pig production

OBJECTIVE	The course deals with the theoretical knowledge to be considered to make informed decisions in the planning of pig production unit
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Overview of the South African and international pork industry, market research and marketing requirements, characteristics and needs of pigs, biological features of pigs, suitable environment for pigs, production cycles, production systems, housing facilities, effective management and economic considerations
DURATION	1 day

FINANCIAL IMPLICATIONS R70 per participant for tuition and R140 for accommodation and meals

Poultry production

OBJECTIVE The course deals with the theoretical knowledge and skills with regard to the production practices of poultry

CONTENT To offer participants the practical learning experience, the following three kinds of crops will be discussed in detail: Poultry breeds, production cycles, care of poultry during growth stages, housing and infrastructure, nutrition, health management, record keeping and marketing

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition and R420 for accommodation and meals

Poultry production

OBJECTIVE The course deals with the theoretical knowledge and skills with regard to the production practices of poultry

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Poultry breeds, production cycles, care of poultry during growth stages, housing and infrastructure, nutrition, health management, record keeping and marketing

DURATION 10 days

FINANCIAL IMPLICATIONS R700 per participant for tuition and R1400 for accommodation and meals

Beef production

OBJECTIVE The course deals with the theoretical knowledge and practical skills regarding beef cattle farming

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Beef production in the Western Cape, breed types, selection, breeding seasons, animal management, marketing, nutrition, animal health and record keeping

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition and R420 for accommodation and meals

Pig production

OBJECTIVE The course deals with the theoretical knowledge and skills with regard to the production practices of a pig unit

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Pig breeds, breeding and selection, care of pigs during growth stages, housing, nutrition, health management, record keeping and marketing and value adding

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition and R420 for accommodation and meals

Dairy production

OBJECTIVE The course deals with the theoretical knowledge and skills regarding dairy production practices

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Dairy breeds, anatomy and morphology, factors influencing milk production, reproduction and calving, calf rearing, nutrition,

milk machines, milking procedure and hygiene, economics of dairy production

DURATION 10 days

FINANCIAL IMPLICATIONS R700 per participant for tuition and R1 400 for accommodation and meals

Farming awareness

OBJECTIVE The course deals with the knowledge related to the challenges in the farming environment and to make purposeful decisions regarding choices between the different enterprises

CONTENT To offer participants practical learning experience, the course covers the following learning areas: Choose a crop/livestock to farm with, choose a system for operating your farming venture, choose the right practices, choose the right technology, managing your farm and agriculture as a science

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition and R420 for accommodation and meals

Agricultural marketing

OBJECTIVE The course deals with the knowledge and skills in respect of the principles of marketing and marketing practices required to make agricultural products successful

CONTENT To offer participants practical learning experience, the course covers the following learning areas: 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 and marketing plan and strategy

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition and R420 for accommodation and meals

Financial management

OBJECTIVE The course deals with the knowledge and understanding of the aspects and procedures of financial management in the agricultural environment

CONTENT To offer participants practical learning experience, the course covers the following learning areas: Introduction to financial management, financial management concepts (income, expenditure, profit), 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)

DURATION 4 days

FINANCIAL IMPLICATIONS R280 per participant for tuition and R560 for accommodation and meals

Agricultural management

OBJECTIVE The course deals with the knowledge and understanding of the principles of agricultural management as well as the necessary skills of managing a farm business successfully

CONTENT To offer participants practical learning experience, the course covers the following learning areas: Introduction to management, components of the agricultural production environment, factors of production, (land, labour capital, and management), agricultural production systems, managerial tasks (plan-

ning, organising, decision making, and control), different levels of management (top, middle and lower management), different management styles (democratic, autocratic, laissez-faire, etc) and administrative systems (communication and information systems

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition and R420 for accommodation and meals

Entrepreneurship

OBJECTIVE The course deals with knowledge and understanding of fundamental aspects and procedures of a new business

CONTENT To offer farmers practical learning experience, the course covers the following learning areas: The concept entrepreneurship, the importance of entrepreneurship in South Africa, characteristics of a successful entrepreneur, business ethics and social responsibility, different type of business, 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

DURATION 4 days

FINANCIAL IMPLICATIONS R280 per participant for tuition and R560 for accommodation and meals

Soil preparation and plant nutrition

OBJECTIVE The course deals with the theoretical and practical knowledge and skills regarding soil preparation and plant nutrition, to make well considered and informed observations and limited decisions

CONTENT To offer participants practical learning experience, the course covers the following learning areas: Soil properties (physical, chemical, organic), plant nutrition (necessary nutrients, fertilisers, sampling, compost, soil analysis) and cultivation practices

DURATION 4 days

FINANCIAL IMPLICATIONS R280 per participant for tuition and R560 for accommodation and meals

Parts and functioning of vegetable plants

OBJECTIVE The course deals with the theoretical and practical knowledge and skills regarding parts and functioning of vegetable plants tree to make well-considered and informed and informed observations and limited decisions

CONTENT To offer participants practical learning experience, the course covers the following learning areas: Subsurface parts (root system), above ground parts (stem, scaffold, branches, shoots, leaves, buds, flower and internal structure of the plant)

DURATION 4 days

FINANCIAL IMPLICATIONS R280 per participant for tuition and R560 for accommodation and meals

Manipulation and irrigation of vegetables

OBJECTIVE The course deals with the theoretical and practical knowledge and skills regarding manipulation and irrigation of vegetables to make well-considered and informed observations and limit decisions

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Training systems, thinning methods, flower manipulation, fruit manipulation, irrigation systems and water application

DURATION 4 days
FINANCIAL IMPLICATIONS R280 per participant for tuition and R560 for accommodation and meals

Crop protection of vegetables

OBJECTIVE The course deals with the theoretical and practical knowledge and skills regarding crop protection of vegetables to make well-considered and informed observations and limit decisions

CONTENT To offer participants practical learning experience, the course covers the following learning areas: Plant diseases, pests, diseases associated with vegetables, insects, pests associated with vegetables, weeds and integrated pest control

DURATION 4 days

FINANCIAL IMPLICATIONS R 280 per participant for tuition and R560 for accommodation and meals

Harvesting and post-harvest handling of vegetables

OBJECTIVE The course deals with the theoretical and practical knowledge and skills regarding harvesting and post-harvest handling of vegetables to make well-considered and informed observations and limit decisions

CONTENT To offer participants practical learning experience, the course covers the following learning areas: Fruit development, maturity determination, sampling, harvesting process, harvesting methods and post-harvest handling

DURATION 4 days

FINANCIAL IMPLICATIONS R280 per participant for tuition and R560 for accommodation and meals

Safe handling of chemicals

OBJECTIVE The course deals with the theoretical and practical methods of safe handling and use of chemicals to ensure the safe and responsible use thereof

CONTENT To offer participants practical learning experience, the course covers the following learning areas: Introduction, storage and packaging, classification codes, guidelines for user protection, application safety and protection of environment

DURATION 1 day

FINANCIAL IMPLICATIONS R70 per participant for tuition and R140 for accommodation and meals

Calibration of knapsack sprayer

OBJECTIVE The course deals with the basic knowledge and skills regarding the principles related to the calibration of knapsack sprayers to ensure optimal spraying

CONTENT To offer participants practical learning experience, the course covers the following learning areas: Components of spraying equipment (types of nozzles, droplet size, pump, pressure control system, filtering and agitating the tank), calibrating the pump, application volume, speed, perform basic calculations, use the metric system accurately, able to select hand tools (basic equipment appropriate to calibration of sprayers, operate, care for and operate basic tools (equipment in safe and responsible manner, apply routine maintenance and routine servicing plan procedures to ensure ongoing efficient working order of equipment

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition and R420 for accommodation and meals

Calibration of spraying equipment

OBJECTIVE	The course deals with the basic knowledge and skills regarding the principles related to the calibration of spraying equipment to ensure optimal spraying
CONTENT	To offer participants practical learning experience, the course covers the following learning areas: Components of spraying equipment (types of nozzles, droplet size, pump, pressure control system, filtering and agitating the tank), calibrating the pump, application volume, speed, perform basic calculations, use the metric system accurately, able to select hand tools (basic equipment appropriate to calibration of sprayers), operate, care for and operate basic tools (equipment) in safe and responsible manner, apply routine maintenance and routine servicing plan procedures to ensure ongoing efficient working order of equipment
DURATION	4 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition and R560 for accommodation and meals

Operating a personal computer

OBJECTIVE	The course deals with the knowledge and skills in computer hardware and software to prepare them for learning more specific application programs
CONTENT	To offer participants practical learning experience, the course covers the following learning areas: Understanding, use and maintenance of hardware components, basic operating system procedures, understanding different types of application software and the aim of each and managing files on the computer
DURATION	4 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition and R560 for accommodation and meals

Introduction to vineyard crop protection

OBJECTIVE	To provide participants with the basic knowledge of the principles of disease, pest and weed control (crop protection) of a vineyard
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Principles of disease and pest control, symptoms of fungi, bacteria and virus diseases, control of diseases and pests in vines, understand and control abnormalities/damages caused by environmental conditions
DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Vineyard crop protection

OBJECTIVE	To provide participants with the basic knowledge and skills of the principles of disease and pest control and crop protection of a vineyard.
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: General characteristics, principles and control of plant diseases, namely fungi, bacteria and viruses, as well as insects and weeds
DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Installation of trellis systems in vineyards

OBJECTIVE	To provide participants with the knowledge and skills regarding the advantages, disadvantages and practices of trellising, as well as the installation of trellis systems
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Advantages of trellising namely practices, sunlight and micro-climate. Disadvantages of trellising, namely diseases and production practices. Choices of trellis systems, namely vigour, row width, wind and frost. Installation of trellising systems
DURATION	2 days
FINANCIAL IMPLICATIONS	R140 per participant for tuition and R280 per participant for accommodation and meals

Framework development of vines

OBJECTIVE	To provide participants with the knowledge and skills regarding handling young vines from nursery to plant, the reasons for vine frame development as well as skills to do greenshoot development and development during 2nd, 3rd and 4th growth
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Handling from nursery to plant, reasons for vine frame development, namely vigour and quality, balanced framework, leaf distribution and micro-climate, greenshoot development method, development during second, third and fourth growing season, winter pruning of different vine frames and winter cane development
DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per trainee for accommodation and meals

Canopy management of vines

OBJECTIVE	To provide participants with the knowledge and skills regarding canopy management as well as spring and summer practices
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Principles of canopy management, namely nutrition sinks, efficient leaf surface, light and air penetration, influence on pruning and harvesting costs and control of crop loads. Application of canopy management practices, namely 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
DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Maintenance pruning of vines

OBJECTIVE	To provide participants with knowledge and skills regarding the parts and functioning of the plant, as well as the knowledge and skills to prune vines correctly
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Principles of vineyard pruning, namely reasons for pruning, principles and application of pruning, time of pruning and pruning systems. Application of pruning principles, namely making the correct cut

DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Harvesting grapes

OBJECTIVE	To provide participants with the necessary knowledge and skills to determine the optimum ripeness of grapes for a specific purpose, as well as skills to harvest products according to standard procedures.
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CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Ripening and determination of ripeness of grapes, namely the development of the berries, criteria to determine ripeness, evaluation of quality and maturity indexing. Harvesting of the product, namely planning of a harvesting programme, sampling, preparations before harvest and harvesting systems. Post-harvest handling of the product, namely biological factors involved in decay, cooling of fresh produce and post-harvest technology
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DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Viticulture nursery practices

OBJECTIVE	To provide participants with the necessary knowledge and skills in plant propagation, as well as an understanding of good nursery practices
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CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: The propagation environment, preparing propagation material and propagation media, propagation procedures, propagation structures, different types of propagation media and environment and establishing a process for the post-propagation activities
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DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Introduction to vine cultivation

OBJECTIVE	To equip participants with knowledge of the basic needs of vines and to give them an overview and insight of production practices and procedures in an environment where vines are cultivated
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CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Natural resources required for vine cultivation, infra-structure and stock requirements for vine cultivation, production cycle/procedure for vine cultivation and harvesting and post-harvest practices procedures for vine cultivation
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DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Basic soil science and vine nutrition

OBJECTIVE	To provide participants with knowledge and skills regarding basic soil science and vine nutrition
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CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Demonstration and understanding of the properties
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of soil, nutrient requirements of vines, nutritional deficiencies, fertilisation methods of growing vines, soil sample taking, soil preparation and the making and usage of compost

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition and R420 per participant for accommodation and meals

Soil science and vine nutrition

OBJECTIVE To provide participants with the necessary knowledge and skills regarding soil science and vine nutrition

CONTENT To offer farmers the practical learning experience, the course offers the following learning areas: Properties of soil and how these impact on plant nutrition and soil preparation, soil preparation and remediation, nutritional programmes based on recommendations, implementation of soil utilisation plan for vines and identification and interpretation of symptoms of nutritional deficiencies and making of recommendations

DURATION 4 days

FINANCIAL IMPLICATIONS R280 per participant for tuition and R560 per participant for accommodation and meals

Establishment of vineyards

OBJECTIVE To provide participants with the necessary knowledge, skills and understanding regarding the most important aspects to be considered during the establishment of a vineyard

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: Vine structure, selection of site, namely influence of climate and soil on production and correct selection of location and terrain. Choice of scion and rootstock, namely correct selection of location and terrain, most important scion and rootstock cultivars, improvement of plant material. Establishment of a block, namely spacing for wine, table and raisin grapes, layout of a block and treatment before and during planting.

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition and R420 per participant for accommodation and meals

Parts and functioning of the vine

OBJECTIVE To provide participants with the necessary knowledge and understanding regarding the most basic parts and the functioning of vines

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: Names and functions of the different parts of the plant, including the roots, leaves, flower and fruit, descriptions of the life cycle of plants, basic concepts of water/chemical intake and food production by the plant parts, relationships that exist between the entire plant and the environment

DURATION 2 days

FINANCIAL IMPLICATIONS R140 per participant for tuition and R280 per participant for accommodation and meals

Structure and functioning of the vine

OBJECTIVE To provide participants with the necessary knowledge and understanding regarding the structures and functioning of vines

CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Different parts of a plant, plant relationship to environment, structure and basic functioning of a plant cell, translocation of water and nutrients, anatomy and physiology of a leaf, processes and transpiration, respiration and photosynthesis, maturity and ripening of fruit, gaseous exchange, osmosis, translocation and cell division
DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Introduction to irrigation

OBJECTIVE	To provide participants with the necessary knowledge and skills regarding irrigation, soil-water relationships, water requirements of crops and different methods of irrigation
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Soil-water relationships, movement of water in soil availability of water, soil texture, soil structure, water requirements of crops, methods of irrigation, irrigation scheduling to crop requirements, irrigation system installation
DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Irrigation

OBJECTIVE	To provide participants with the necessary knowledge and skills regarding irrigation, soil-water relationships, water requirements of agricultural crops, different methods of irrigation as well as a basic understanding of irrigation scheduling
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Soil-water relationships, movement of water in soil, availability of water, soil texture, soil structure, sampling and observation of water quality, water requirements of crops, methods of irrigation, irrigation system installation, basic maintenance of systems, flow and pressure regulation, cleaning filters, pipeline maintenance, cleaning of blocked sprinklers, shifting of pipes, caring and maintenance of equipment and tools used for irrigation
DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Plant vines

OBJECTIVE	To provide participants with the necessary knowledge and skills to plant and the successful establishment of vineyards
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Selection, use and care of the appropriate tools and equipment used in the planting of vines, monitoring and handling of planting materials for successful establishment according to required procedures and understanding the impact of environmental conditions on the successful establishment
DURATION	2 days
FINANCIAL IMPLICATIONS	R140 per participant for tuition and R280 per participant for accommodation and meals

Block manager—long-term crops

OBJECTIVE	To provide participants with the necessary knowledge and skills regarding aspects of management of long-term crops and to give them an overview of the cultivation practices applied on a farm where long-term crops are cultivated
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Evaluate, adjust production processes to manage natural resources sustainability, compare and evaluate infrastructural factors affecting requirements, required stock, historical and current framework structures of the industry, governments and departments that affect the specific industry, legislation pertaining to the specific industry, supportive resources, associations, groups, networks and services available to assist members of the industry, checking, receiving and storing of a range of agricultural inputs, updating of records, ordering of stock and processing of payments, scheduling the re-ordering of agricultural inputs, inspection and organising of maintenance equipment facilities and infrastructure
DURATION	2 x 4 days (therefore 8 days in total)
FINANCIAL IMPLICATIONS	R560 per participant for tuition and R1 120 per participant for accommodation and meals

Crop protection of deciduous fruit

OBJECTIVE	To supply participants with theoretical and practical knowledge and skills regarding crop protection of pome and stone fruit, to make well-considered and informed observations and limited decisions
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Plant diseases, diseases associated with deciduous fruit, insects, pests associated with deciduous fruit, weeds and integrated pest control
DURATION	4 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition and R560 per participant for accommodation and meals

Soil preparation and plant nutrition

OBJECTIVE	To provide participants with theoretical and practical knowledge and skills regarding soil preparation and plant nutrition, to make well-considered and informed observations and limited decisions
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Soil properties, namely physical soil properties, chemical soil properties and organic soil properties. Plant nutrition, namely necessary nutrients, fertilisers, sampling, compost, soil and soil analysis. cultivation practices
DURATION	4 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition and R560 per participant for accommodation and meals

Harvesting and post-harvesting handling of deciduous fruit

OBJECTIVE	To provide participants with theoretical and practical knowledge and skills regarding harvesting and post-harvest handling of deciduous fruit to make well-considered and informed observations and limited decisions
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Fruit development, maturity determination, sam-

	pling, harvesting processes, harvesting methods and post-harvesting handling
DURATION	4 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition and R560 per participant for accommodation and meals

Pruning and manipulation of deciduous fruit

OBJECTIVE	To supply participants with theoretical and practical knowledge and skills regarding pruning and manipulation of deciduous fruit to make well-considered and informed observations and limited decisions
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Training systems, pruning methods, flower manipulation and fruit manipulation
DURATION	4 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition and R560 per participant for accommodation and meals

Parts and functioning of the deciduous fruit tree

OBJECTIVE	To supply participants with theoretical and practical knowledge and skills regarding parts and workings of the deciduous fruit tree to make well-considered and informed observations and limited decisions
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Subsurface parts, namely the root system. Above-ground parts, namely stem, scaffold, branches. Shoots, leaves and buds. Internal structure of the tree
DURATION	4 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition and R560 per participant for accommodation and meals

Erecting and maintenance of wire fencing

OBJECTIVE	To provide participants with the theoretical knowledge and basic skills with regard to the principles of erecting and maintaining wire fences.
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Boundary or ordinary fences—important prerequisites, type of fences, fencing material, types of anchors and anchor constructing, 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 and safety measures
DURATION	5 days
FINANCIAL IMPLICATIONS	R350 per participant for tuition and R700 per participant for accommodation and meals

Metal work on the farm

OBJECTIVE	To supply participants with the theoretical knowledge and basic skills with regard to the principles of shielded metal arc and oxyacetylene welding
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Workshop practices, preparation and securing of workpieces for welding, shielded metal arc welding, namely safety measures and legislation, preparation and assembling of welding equipment, fundamental principles of arc welding, welding techniques and welding defects.

Gas welding (oxyacetylene), namely safety measures, preparation and assembling of welding equipment, welding of sheet metal, brazing and manual cutting of mild steel

DURATION 10 days

FINANCIAL IMPLICATIONS R700 per participant for tuition and R1 400 per participant for accommodation and meals

Routine tractor care on the farm

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

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: 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 and safety on farm storage of fuel

DURATION 2 days

FINANCIAL IMPLICATIONS R140 per participant for tuition and R280 per participant for accommodation and meals

Communication

OBJECTIVE To provide participants with the necessary knowledge and skills in respect of communication in order to ensure that they can communicate effectively

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: The objective and medium of communication, the different ways of communication and effective ways of having a conversation

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition and R420 per participant for accommodation and meals

HIV/Aids

OBJECTIVE To provide participants with the necessary knowledge and skills in respect of HIV/Aids, the effect that it has on the society, and how to improve the situation

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: The effect of HIV/Aids on the immune system, knowing how HIV/Aids is transmitted, knowing how to prevent HIV/Aids, attitudes towards HIV/Aids in the workplace and society, the impact of HIV/Aids in the workplace, planning, preparing and offering of an information session on HIV/Aids in the workplace

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition and R420 per participant for accommodation and meals

Conflict management

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

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: Identification of different conflict situations, Identifi-

	fication of conflict situations in the workplace, the difference between feelings and actual problems and how to handle conflict
DURATION	2 days
FINANCIAL IMPLICATIONS	R140 per participant for tuition and R280 per participant for accommodation and meals

Leadership

OBJECTIVE	To provide participants with the necessary knowledge and skills to lead a team effectively
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: 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 and the development of a plan of action to enhance team performance

DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Life orientation

OBJECTIVE	To provide participants with the necessary knowledge, life skills and self-confidence to play a significant role in society
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Knowledge of oneself, namely self-image, self-management, goal setting, thinking skills, time management, listening skills, problem-solving, decision making, studying skills, assertiveness and career planning and management skills. A healthy lifestyle

DURATION	4 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition and R560 per participant for accommodation and meals

Motivation

OBJECTIVE	To provide participants 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
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: The importance and role of motivation, motivation theories, motivation techniques, participation in decision making, leadership and motivation as well as the importance of feedback and recognising achievements

DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition and R420 per participant for accommodation and meals

Meeting procedures

OBJECTIVE	To provide participants with the necessary knowledge, understanding and skills in respect of planning, organising and conducting meetings
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Planning a meeting, the purpose and objective of

the agenda of meetings, the purpose and objective of minutes of meetings, taking of minutes at meetings, how to handle conflict in a meeting and leading the post meeting follow-up

DURATION 2 days

FINANCIAL IMPLICATIONS R140 per participant for tuition and R280 per participant for accommodation and meals

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Fort Cox College of Agriculture and Forestry

After completion of the courses mentioned below, the participants will either be awarded a certificate of competency or a certificate of attendance

Pig production

OBJECTIVE To equip participants with the modern technology of farming with pigs on a small and large scale.

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: Description of local pig industry, housing of piglets, breeding boar and sow and farrowing sows, feeding of piglets, breeding boar and sow and pregnant sows, management of pig diseases, general pig husbandry, selling of pigs, industry and market-related aspects

DURATION 10 days

FINANCIAL IMPLICATIONS R950 per participant for tuition, R500 per participant for accommodation, R600 per participant for meals

Egg production

OBJECTIVE To equip participants with the modern technology of producing eggs on a small and large scale

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: Description of local egg industry, housing of hens, feeding of pullets and layers, management of poultry diseases, hygiene programme, frequent poultry diseases, eggs, general

DURATION 5 days

FINANCIAL IMPLICATIONS R560 per participant for tuition, R250 per participant for accommodation, R300 per participant for meals

Broiler production

OBJECTIVE To equip participants with the modern technology of producing poultry meat on a small and large scale

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: Nature of local broiler industry, important aspects involving chicks, housing of broiler chickens, feeding of broiler chickens, management of poultry diseases, selling of chickens, key determinants of a successful broiler unit

DURATION 5 days

FINANCIAL IMPLICATIONS R560 per participant for tuition, R250 per participant for accommodation, R300 per participant for meals

Dairy production

OBJECTIVE To equip participants with the modern technology of dairy production on a small and large scale

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: Introduction to local dairy industry, dairy infrastructure, feeding of dairy calves, heifers, cows and bulls, management of herd health, milk production, general livestock husbandry, milk

DURATION 10 days

FINANCIAL IMPLICATIONS R850 per participant for tuition, R500 per participant for accommodation, R600 per participant for meals

Beef production

OBJECTIVE To equip participants with the modern technology of beef production on a small and large scale

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: Introduction to local beef industry, management of reproduction, feeding of beef cattle, management of herd health, general beef husbandry, selling of beef

DURATION 10 days

FINANCIAL IMPLICATIONS R850 per participant for tuition, R500 per participant for accommodation, R600 per participant for meals

Goat production

OBJECTIVE To equip participants with the modern technology of goat production on a small and large scale

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: Introduction of local goat industry, management of reproduction, feeding of goats, management of goat flock health, fibre technology, general goat husbandry, selling of goat products

DURATION 5 days

FINANCIAL IMPLICATIONS R550 per participant for tuition, R250 per participant for accommodation, R300 per participant for meals

Sheep production

OBJECTIVE To equip participants with the modern technology of sheep production on a small and large scale.

CONTENT To offer participants the practical learning experience, the course offers the following learning areas: Introduction to local sheep industry, management of reproduction, feeding of sheep, management of sheep flock health, fibre technology, general goat husbandry and selling of sheep products

DURATION 5 days

FINANCIAL IMPLICATIONS R550 per participant for tuition, R250 per participant for accommodation, R300 per participant for meals

Land-based entrepreneurship

OBJECTIVE	To introduce participants who have either little or no knowledge of business principles
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: What is land-based entrepreneurship? Building a land-based business, marketing of land-based products, buying and costing, money matters
DURATION	10 days
FINANCIAL IMPLICATIONS	R1 000 per participant for tuition, R500 per participant for accommodation, R600 per participant for meals

Value adding technology

OBJECTIVE	To equip participants with skills and knowledge of packaging and marketing high-value products for export purposes
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: What is value adding technology?, Abattoirs, processing, export markets
DURATION	5 days
FINANCIAL IMPLICATIONS	R550 per participant for tuition, R250 per participant for accommodation, R300 per participant for meals

Technology of field crop production

OBJECTIVE	To equip participants with the modern technology of field crop production on a small and large scale.
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Field crop production in South Africa, growing field crops, pest control, disease control, crop yields, marketing of crops
DURATION	10 days
FINANCIAL IMPLICATIONS	R850 per participant for tuition, R500 per participant for accommodation, R600 per participant for meals

Technology of vegetable production

OBJECTIVE	To equip participants with the modern technology of vegetable production on a small scale or large scale
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Vegetable production in South Africa, vegetables, pest control, disease control, marketing of crops and other aspects
DURATION	10 days
FINANCIAL IMPLICATIONS	R850 per participant for tuition, R500 per participant for accommodation, R600 per participant for meals

Farm buildings and surveys

OBJECTIVE	To equip participants with theoretical and practical theory of building construction
CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Farm buildings, the actual building, land surveys and other aspects

DURATION	10 days
FINANCIAL IMPLICATIONS	R850 per participant for tuition, R500 per participant for accommodation, R600 per participant for meals

Applied information technology

OBJECTIVE	To introduce participants to the application of computer business, including agriculture
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CONTENT	To offer participants the practical learning experience, the course offers the following learning areas: Introduction to computers, use of computer software, internet, computer application
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DURATION	10 days
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FINANCIAL IMPLICATIONS	R850 per participant for tuition, R500 per participant for accommodation, R600 per participant for meals
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Glen College of Agriculture

After completion of the courses mentioned below, the participants will either be awarded a certificate of competency or a certificate of attendance

Building

OBJECTIVE	The course deals with practical building methods
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CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Reading of building plans, planning and choice of site, basic building materials, concrete laying, brickwork, plastering, planning for doors, windows, roofs and gutters, painting, plumbing, reservoirs and channels
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DURATION	5 days
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FINANCIAL IMPLICATIONS	R250 per participant for tuition, R100 per participant for accommodation, R50 per participant for meals per day
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Farm mechanics

OBJECTIVE	The course deals with the practical learning experience of farming machines and implements
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CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Functioning and operation of industrial, agricultural and automotive machines, internal combustion engines, operation of manual gearboxes and differentials, farm machinery safety standards, assembling and dismantling of engines, starting of petrol and diesel engines and testing and adjustment of diesel injectors
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DURATION	5 days
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FINANCIAL IMPLICATIONS	R250 per participant for tuition, R100 per participant for accommodation, R50 per participant for meals
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Introduction to Value Added Tax

OBJECTIVE	The course attempts to give practical guidance to vendors in order to inform businesses and compliance
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: The course offers practical exposure to farmers/ farm managers on what VAT is—how it works, how to register, taxable supplies and VAT returns
DURATION	1 day
FINANCIAL IMPLICATIONS	R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Tractor maintenance, management and driving

OBJECTIVE	The course deals with the practical methods of maintaining a tractor and the ability to drive a tractor
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: General function and maintenance of a tractor; different parts of the engine; checking water, oil and tyre pressure; operation and adjustment of lift operation; power take-off; correct gear changing
DURATION	5 days
FINANCIAL IMPLICATIONS	R250 per participant for tuition, R100 per participant for accommodation, R50 per participant for meals

Extension programme and evaluation

OBJECTIVE	To capacitate learners with skills in planning and evaluation of extension programmes
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Principles of programme planning; knowledge/information to be collected before planning an extension programme; factors to be considered in choosing extension methods to be used; implementation strategy; evaluation of extension programmes; evaluation of a programme
DURATION	1 day
FINANCIAL IMPLICATIONS	R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Group dynamics

OBJECTIVE	The course deals with the practical principles of group counteraction and dynamics
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Internal dynamics of groups, forces causing internal dynamics, external dynamics in groups, guidelines for initiating changes in groups, factors to be considered when initiating change in a group
DURATION	1 day
FINANCIAL IMPLICATIONS	R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Rural community need identification and analysis

OBJECTIVE	The course deals with the practical methods of need identification and analysis within rural communities
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CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Basic concepts, process of needs identification; needs identification techniques i.e. questionnaires, rapid rural appraisal and interviews
DURATION	1 day
FINANCIAL IMPLICATIONS	R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Agricultural strategies for transfer of technology

OBJECTIVE	The course deals with the practical methods on extension approaches in transfer of technology in agriculture
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Extension approaches in transfer of technology in agriculture, agencies involved in transfer of technology, strategies used in the transfer of agricultural technology
DURATION	1 day
FINANCIAL IMPLICATIONS	R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Beef cattle management

OBJECTIVE	The course deals with the management and production of beef cattle
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Breeding season, mating principles, management of heifers, managing cows with calves, managing the breeding bull, feeding beef cattle
DURATION	2 days
FINANCIAL IMPLICATIONS	R100 per participant for tuition, R40 per participant for accommodation, R20 per participant for meals

Cultivation of cultivated pastures

OBJECTIVE	The course deals with the practical methods experienced regarding cultivated pastures
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Identification of some cultivated pastures, planting, fertilisation and utilisation
DURATION	1 day
FINANCIAL IMPLICATIONS	R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Cultivation of lucerne

OBJECTIVE	The course deals with the practical methods of harvesting baling of lucerne
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Harvesting and baling of lucerne on the land
DURATION	1 day
FINANCIAL IMPLICATIONS	R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Plant identification of veld pastures

OBJECTIVE	The course deals with the practical methods of being able to identify different grass types
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Identification of plants in the classroom and veld, names of most common plants, location of different plant species, classification of different grass species
DURATION	2 days
FINANCIAL IMPLICATIONS	R100 per participant for tuition, R40 per participant for accommodation, R20 per participant for meals

Soil classification

OBJECTIVE	The course deals with the practical methods to assess different soils
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: The reasons for different soils and the implication thereof on vegetable and crop farming
DURATION	1 day
FINANCIAL IMPLICATIONS	R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Disease control

OBJECTIVE	The course deals with the most common diseases of cattle
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Causes, clinical signs, diagnosis, treatment and control of these diseases, diseases like black quarter, anthrax, TB, brucellosis, digestion disturbance, etc
DURATION	2 days
FINANCIAL IMPLICATIONS	R100 per participant for tuition, R40 per participant for accommodation, R20 per participant for meals

Arc welding

OBJECTIVE	The course deals with the practical methods in arc welding skills
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Safety aspects of arc welding, using the arc welding set, different welding processes, different methods of welding, cast work, different joints
DURATION	5 days
FINANCIAL IMPLICATIONS	R250 per participant for tuition, R100 per participant for accommodation, R50 per participant for meals

Gas welding

OBJECTIVE	The course deals with the practical methods to do gas welding
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Safety aspects of gas welding, using the gas welding set, lighting and extinguishing the flame, gas cutting, hard soldering, brazing, welding metal with metal.
DURATION	5 days

FINANCIAL IMPLICATIONS R250 per participant for tuition, R100 per participant for accommodation, R50 per participant for meals

Calculation of plant density and yield

OBJECTIVE The course deals with the methods to calculate the plant density with an aim of calculating expected yield

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Calculation of plant density, yield estimation

DURATION 1 day

FINANCIAL IMPLICATIONS R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Handling of pesticides and herbicides

OBJECTIVE The course deals with the practical methods of safe application of pesticides and herbicides to plants

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Handling pesticides and herbicides, mixing pesticides and herbicides, spraying of pesticides and herbicides, safety precautions

DURATION 1 day

FINANCIAL IMPLICATIONS R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Calibration of implements: boom sprayers

OBJECTIVE The course deals with the practical methods to calibrate a boom sprayer

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Calibration of seed drill, precision planters, pesticide sprayers and fertiliser spreaders

DURATION 1 day

FINANCIAL IMPLICATIONS R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Personnel management

OBJECTIVE The course attempts to define personnel management and identify the unique characteristics of labour management on farms

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Exposure to farmers/farm managers on the basic principles and legislative framework. It covers the following learning areas: general orientation, recruitment, motivation of workers, remuneration and grievance resolution in handling planting implements safely

DURATION 1 day each

FINANCIAL IMPLICATIONS R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Marketing

OBJECTIVE The course deals with different facets of marketing farm produce

CONTENT To offer participants the practical learning experience, the course covers the

following learning areas: basic principles of marketing and the legislative framework of marketing agricultural products. This will include learning areas such as: general introduction, demand, supply, price determination and marketing strategy

DURATION	1 day
FINANCIAL IMPLICATIONS	R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Mutton technology

OBJECTIVE	The course deals with new methods in mutton technology
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Classification of live animals, curing of hides, classification of meat on the hook, dressing of meat, use of different meat cuts, basic hygiene and ripening, processing and cooking of meat
DURATION	3 days
FINANCIAL IMPLICATIONS	R150 per participant for tuition, R60 per participant for accommodation, R30 per participant for meals

Wool classing

OBJECTIVE	The course deals with the preparation and classification of wool
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Picking-up and throwing fleeces, identification of different parts of the fleece, skirting, typing, grouping, classing of broken fleeces and bellies and pieces into various lines
DURATION	5 days
FINANCIAL IMPLICATIONS	R250 per participant for tuition, R100 per participant for accommodation, R50 per participant for meals

Dairy management

OBJECTIVE	The course deals with the management of a milking parlour
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Cleaning the milking parlour, cleaning equipment, maintenance of equipment, the milking process, management of the milking process
DURATION	2 days
FINANCIAL IMPLICATIONS	100 per participant for tuition, R40 per participant for accommodation, R20 per participant for meals

Farm accounting

OBJECTIVE	The course attempts to introduce learners to systematic farm accounting systems
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Excellent experiential exposure to farmers/farm managers on the basic accounting systems on farms. It covers the following learning areas: filing, physical and financial records/statements, analysis of financial statements (solvency, liquidity and profitability)
DURATION	1 day

FINANCIAL IMPLICATIONS R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals

Döhne course

OBJECTIVE The course deals with the practical methods on the Döhne goat breed

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Standards of excellence, judging different body parts of Döhne merinos, judging the wool, classing different individuals in terms of excellence

DURATION 2 days

FINANCIAL IMPLICATIONS R100 per participant for tuition, R40 per participant for accommodation, R20 per participant for meals

Farm budgets

OBJECTIVE The course attempts to practically illustrate procedures on how to compile various farm budgets and their importance to farm management

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Exposure to farmers/farm managers on how to compile and analyse the following: enterprise budget, partial budget and break-even budget. Practical exercises will be given to learners to practically apply their budgeting skills

DURATION 1 day

FINANCIAL IMPLICATIONS R50 per participant for tuition, R20 per participant for accommodation, R10 per participant for meals per day

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Grootfontein Agricultural Development Institute

After completing the courses mentioned below, participants will either be awarded a competency certificate or a certificate of attendance

Inseminator course (small stock)

OBJECTIVE The course deals with practical methods of how to artificially inseminate

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Theory and technique of the nonsurgical artificial insemination of animals, the anatomy of the genital system of male and female animals, physiology and diseases of reproduction, the principles of veterinary hygiene, the elementary theory of livestock breeding and genetics, the theory and practice of the conveyance of semen, legislation regarding the collection, sale and conveyance of semen and the artificial insemination of animals

DURATION 5 days

FINANCIAL IMPLICATIONS R215 per participant for tuition, R375 per participant for accommodation*

* Accommodation includes meals

Computer beginners (end user computing)

OBJECTIVE	The course deals with basic principles on how to use a computer
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Windows and MS Office, MS Excel, Internet as well as PowerPoint
DURATION	5 days
FINANCIAL IMPLICATIONS	R215 per participant for tuition, R375 per participant for accommodation*

Computer introduction course (basics)

OBJECTIVE	The course deals with the basics of computer hardware and software
CONTENTS	To offer participants the practical learning experience, the course covers the following learning areas: Computer software and hardware and the use of a mouse
DURATION	1 day
FINANCIAL IMPLICATIONS	R43 per participant for tuition, R75 per participant for accommodation*

Computer advanced (end user computing)

OBJECTIVE	The course deals with basic principles of how to use a computer in a farming business
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Windows and Ms Office, Ms Excel, Internet as well as Ms PowerPoint
DURATION	5 days
FINANCIAL IMPLICATIONS	R215 per participant for tuition, R375 per participant for accommodation*

Farm mechanic work (petrol)

OBJECTIVE	The course deals with the practical methods on how to fix farm machinery (petrol)
CONTENTS	To offer participants the practical learning experience, the course covers the following learning areas: Maintenance, routine inspection, daily inspection, services, replacing of oil, filters and grease, inspection of brakes, bearings, leaks and cleaning of engines
DURATION	1 day
FINANCIAL IMPLICATIONS	R43 per participant for tuition, R75 per participant for accommodation*

Farm mechanic work (diesel)

OBJECTIVE	The course deals with the basic maintenance and fixing of farm machinery (diesel)
CONTENTS	To offer participants the practical learning experience, the course covers the following learning areas: Maintenance, routine inspection, daily inspection, services, replacing of oil, filters and grease, inspection of brakes, bearings, leaks and the cleaning of engines
DURATION	1 day
FINANCIAL IMPLICATIONS	R43 per participant for tuition, R75 per participant for accommodation*

Resource poor farming

OBJECTIVE	The course deals with techniques to improve the lives of farmers who have access to limited resources and the emerging farmers in the agricultural sector to ensure that they become successful subsistence farmers
CONTENTS	To offer participants the practical learning experience, the course covers the following learning areas: Vegetable, broiler, egg, fodder and small stock production systems
DURATION	2 days
FINANCIAL IMPLICATIONS	R86 per participant for tuition, R150 per participant for accommodation*

Permanent marking of livestock

OBJECTIVE	The course deals with the correct practical methods of permanent marking of livestock
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Safe use of marking equipment and the correct manner of marking
DURATION	2 days
FINANCIAL IMPLICATIONS	R86 per participant for tuition, R150 per participant for accommodation*

Wool course for registration

OBJECTIVE	The course deals with practice and theory of classifying wool
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Shearing shed facilities, classing, packing, marking of containers, physical properties of wool, picking up and throwing and skirting of fleeces, judging, single typing and identification of fleece samples, cast fleeces and grouping
DURATION	5 days
FINANCIAL IMPLICATIONS	R215 per participant for tuition, R375 per participant for accommodation*

Cactus pear fruit production

OBJECTIVE	The course deals with the correct practical methods of how to produce cactus pears for marketing
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Cultivation of cactus pear fruit for the fresh market
DURATION	2 days
FINANCIAL IMPLICATIONS	R86 per participant for tuition, R150 per participant for accommodation*

Meat processing

OBJECTIVE	The course deals with the basic principles of identifying carcass cuts and the roller
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Identification of carcass cuts and roller marking of carcasses, use of machinery and equipment used in the processing of meat, making of different types of sausages, salt meat, biltong, dried sausage, smoked meat, tripe and liver dishes
DURATION	4 days

FINANCIAL IMPLICATIONS R172 per participant for tuition, R300 per participant for accommodation*

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Lowveld College of Agriculture

After completing the courses mentioned below, participants will either be awarded a Competency certificate or a certificate of attendance

Cotton production

OBJECTIVE	The course deals with the practical methods of cotton production
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Production of cotton, servicing, maintenance and operation of irrigation systems
DURATION	20 days
FINANCIAL IMPLICATIONS	R2 000 per participant for tuition, R500 per participant for accommodation, R1 200 per participant for meals

Table grape production

OBJECTIVE	The course deals with the practical methods of table grape production
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Production of table grapes, servicing, maintenance and operation of irrigation systems
DURATION	15 days
FINANCIAL IMPLICATIONS	R1 500 per participant for tuition, R750 per participant for accommodation, R900 per participant for meals

Irrigation operation and maintenance

OBJECTIVE	The course deals with the practical methods of cotton production
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Operation of irrigation systems maintenance and servicing
DURATION	10 days
FINANCIAL IMPLICATIONS	R1 000 per participant for tuition, R500 per participant for accommodation, R600 per participant for meals

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Madzivhandila College of Agriculture

After completing the courses mentioned below, the participants will either be awarded a competency certificate or a certificate of attendance

Broiler production

OBJECTIVE	The course aims at training participants to improve their broiler production management skills so that they could be able to perform their daily activities in a broiler unit
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Broiler breeds and breeders, house brooding preparation, feeding, disease control record-keeping, and marketing strategy
DURATION	49 days
FINANCIAL IMPLICATIONS	R1 960 per participant for tuition, R1 200 per participant for accommodation, R2 646 per participant for meals

Irrigation practices

OBJECTIVE	The course aims at improving participants' ability to schedule irrigation in a more economic and cost-effective way
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Irrigation criteria and scheduling, advantages of irrigation scheduling, crops, sensitivity to water shortage, and determining the irrigation schedules for crops using various methods
DURATION	5 days
FINANCIAL IMPLICATIONS	R240 per participant for tuition, R225 per participant for accommodation, R270 per participant for meals

Pig production

OBJECTIVE	The course aims at training participants to improve their production of pigs through better management practices
CONTENT	To offer participants the practical learning experience. The course covers the following learning areas: Pig breeds, management of mating to farrowing, care of piglets from birth to marketing, feeding, control of parasites, marketing of pigs, record-keeping
DURATION	10 days
FINANCIAL IMPLICATIONS	R560 per participant for tuition, R225 per participant for accommodation, R540 per participant for meals

Safe use of chemicals

OBJECTIVE	The course aims at improving the use of crop protection chemicals by the farmers
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Agrochemicals and their hazardous effects, dermal absorption, inhalation, oral ingestion, types of protective clothing, identification of product labels, transportation of chemicals, storage of chemicals, cleaning of spillage in the storehouse, calibration of the knapsack sprayer, spray tip selection emergency procedures
DURATION	5 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition, R100 per participant for accommodation, R270 per participant for meals

Soil sampling and fertiliser application

OBJECTIVE	The course aims at training participants on soil sampling procedures and the handling of related equipment
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Definition of soil samples, identification of soil colour, texture and structure, soil sampling techniques, as well as preparation of standard representative sample
DURATION	5 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition, R100 per participant for accommodation, R270 per participant for meals

Fertiliser and its management

OBJECTIVE	The course aims at helping participants understand and be able to identify types of fertilisers available on the market, calculate nutrient contents of each fertiliser, and draw up a correct and profitable fertiliser programme
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Types of fertiliser, calculation of nutrient contents, methods of applying fertilisers, time of fertiliser application, fertilisation programmes, economics of fertiliser application and the environmental impact of fertilisers
DURATION	5 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition, R100 per participant for accommodation, R270 per participant for meals

Basics of fertiliser application

OBJECTIVE	The course is designed for people who cannot read or write or those with primary education and is aimed at training them on fertiliser usage
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Identifying types of fertiliser, select correct size of fertiliser application cups, how to apply fertiliser by hand, and what to do after applying fertiliser application
DURATION	5 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition, R100 per participant for accommodation, R270 per participant for meals

Tractor maintenance

OBJECTIVE	The course aims at improving tractor utilisation efficiency and maintenance of tractors and other farm equipment
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Selection of farm machinery, understanding how the engine functions, internal and external parts of the engine, different systems, cooling, lubrication, fuel, electrical and hydraulic, transmissions, etc
DURATION	5 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition, R100 per participant for accommodation, R270 per participant for meals

Vegetable production

OBJECTIVE	The course aims at providing participants with working knowledge in the production of vegetables
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CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Classification of vegetables, climatic requirements, soil requirements, vegetable cultivars, production of seedlings, transplanting, irrigation, fertiliser requirements, weeds, pest and disease control, as well as harvesting and marketing.

DURATION 120 days

FINANCIAL IMPLICATIONS R4 760 per participant for tuition, R3 000 per participant for accommodation, R6 480 per participant for meals

Vegetable achaar processing

OBJECTIVE The course aims at developing knowledge and skills for processing vegetables

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Hygienic considerations when handling food, vegetable classifications, nutritive value of vegetables, identifying ingredients and equipment to be used and labeling

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition, R50 per participant for accommodation, R162 per participant for meals

Mango achaar processing

OBJECTIVE The course aims at developing knowledge and skills for processing fruit

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Hygienic considerations when handling food, timing of the season for the making of achaar, mango identification, ingredients and equipment to be used, the nutritive value of vegetables and type of containers to be used for preserving achaar

DURATION 3 days

FINANCIAL IMPLICATIONS R210 per participant for tuition, R50 per participant for accommodation, R162 per participant for meals

Veld management

OBJECTIVE The course aims at improving pasture management and training farmers on how they can preserve feeds for their animals

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Common grasses and their characteristics, grass species, trees and shrub species, ecology of grasses, fodder reserves (hay and silage) and animal fodder flow

DURATION 5 days

FINANCIAL IMPLICATIONS R280 per participant for tuition, R100 per participant for accommodation, R270 per participant for meals

Peanut butter making

OBJECTIVE The course aims at developing knowledge and skills of processing groundnuts

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Hygienic considerations when handling food, nutritive value of groundnuts, ingredients and equipment used for processing peanut butter, storage and type of containers to be used

DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition, R50 per participant for accommodation, R162 per participant for meals

Maas and yoghurt processing

OBJECTIVE	The course aims at developing knowledge and skills of manufacturing dairy products
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Milk hygiene and the handling of milk, the nutritive value of milk and identifying ingredients and equipment for making yoghurt and maas
DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition, R50 per participant for accommodation, R162 per participant for meals

Cheddar cheese making

OBJECTIVE	The course aims at developing knowledge and skills of manufacturing dairy products
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Milk hygiene and handling of milk products, the nutritive value of cheese and the types of cheese that can be found on the market
DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition, R50 per participant for accommodation, R162 per participant for meals

Milk processing

OBJECTIVE	The course aims at developing knowledge and skills of manufacturing dairy products
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Processing of yoghurt according to relevant procedures and standards, manufacturing maas according to the set procedures and standards, processing of cheese (cottage cheese) according to the procedures and standards set for the production of cheese
DURATION	3 days
FINANCIAL IMPLICATIONS	R210 per participant for tuition, R50 per participant for accommodation, R162 per participant for meals

Artificial insemination (AI)

OBJECTIVE	The course aims at equipping participants with knowledge and skills on artificial insemination
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Physiology of the female reproductive system, the AI equipment, AI techniques and the post-insemination handling of animals
DURATION	5 days
FINANCIAL IMPLICATIONS	R410 per participant for tuition, R100 per participant for accommodation, R270 per participant for meals

Livestock management

OBJECTIVE	The course aims at equipping and training livestock participants to improve livestock production and gain managerial skills
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Dairy heifer rearing, dairy herd record-keeping, reproduction and milking machine management, greater emphasis on practical aspects such as ratio balancing, feedlotting, dairy cattle diseases and maintenance
DURATION	10 days
FINANCIAL IMPLICATIONS	R560 per participant for tuition, R225 per participant for accommodation, R540 per participant for meals

Running a small farming business

OBJECTIVE	The course aims at improving the knowledge of the participants to increase productivity and to be aware of production activities in a farming environment
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Establishment of an enterprise, its operation, its customers and factors influencing them; profitability, working environment and working efficiently
DURATION	5 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition, R100 per participant for accommodation, R270 per participant for meals

Agricultural finance

OBJECTIVE	The course aims at exposing participants to different sources of agricultural finance, how to access finance and the impact of borrowed funds
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Sources of agricultural finance, categories of agricultural finance, use of credit, correct type and amount of credit, effect and redemption period on the cost of credit
DURATION	5 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition, R100 per participant for accommodation, R270 per participant for meals

Compost making

OBJECTIVE	The course aims at training participants on how to make compost and the importance of using it
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Definition of compost, selection of suitable materials, choice of site for compost making, principles of compost making, techniques and handling of equipment and the maintenance of compost heap
DURATION	5 days
FINANCIAL IMPLICATIONS	R280 per participant for tuition, R100 per participant for accommodation, R270 per participant for meals

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Owen Sitole College of Agriculture

After completing the courses mentioned below, the participants will either be awarded a competency certificate or a certificate of attendance

Fruit production

OBJECTIVE	The course deals with the practical methods of planting bananas or citrus, selecting and schedule irrigation, fertilising and managing an orchard
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: <i>Banana production</i> Banana cultivation in SA, method of propagation of bananas, desuckering, transplanting of bananas, fertilisation, irrigation management, pest and disease control, harvesting of bananas, packaging, ripening, marketing, importance of selection and the transplanting of windbreaks <i>Citrus production</i> Layout of citrus orchard (spacing and soil preparation), propagation and planting of citrus trees, citrus irrigation management, weed control in citrus orchards, integrated pest management (IPM), forms of fertilisation, harvesting of citrus, grading, packaging, marketing, importance of selection and the transplanting of windbreaks
DURATION	10 days
FINANCIAL IMPLICATIONS	R1300 per participant for tuition, R450 per participant for accommodation, R450 per participant for meals

Poultry production

OBJECTIVE	The course deals with the practical and theoretical methods to enable the farmer to run a poultry farm successfully and profitably
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Introduction to broilers, budgeting for broilers, feasibility/research on broilers, house preparation, cleaning and disinfection, equipment display, litter management and its problems, rearing of chicks and brooding, chick behaviour, temperature and humidity, diseases, feed types, feed wastage, vaccines and vaccination, storage and handling of vaccines, general medication, handling of birds as well as record-keeping
DURATION	10 days
FINANCIAL IMPLICATIONS	R1 300 per participant for tuition, R450 per participant for accommodation, R450 per participant for meals

Pig production

OBJECTIVE	The purpose of this course is to equip the participant with the practical and theoretical knowledge and understanding required to farm pigs successfully and profitably
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CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Introduction to pigs, budgeting for pigs, feasibility/research on pork, house preparation and furrowing, cleaning and disinfection, equipment display, litter management, rearing of piglets, diseases, feed types, feed wastages, ingredients, general medication, and record-keeping
DURATION	10 days
FINANCIAL IMPLICATIONS	R1 300 per participant for tuition, R450 per participant for accommodation, R450 per participant for meals

Business skills

OBJECTIVE	The course deals with the practical and theoretical methods to enable farmers to evaluate the modern market for opportunities, apply sound business principles and decision making in order to run a business profitably
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Identification of enterprise, record-keeping, understanding the concept of income, expenses and profit/loss, economic principles and marketing, business plans, production plans and cash flow as well as risk management
DURATION	10 days
FINANCIAL IMPLICATIONS	R1 300 per participant for tuition, R450 per participant for accommodation, R450 per participant for meals

Vegetable production

OBJECTIVE	The course deals with the practical and theoretical methods required for the successful and profitable production of vegetables
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: classification of vegetable crops according to their botanical families and climatic requirements, site and location of gardens and garden layouts, establishing and management of a vegetable farm, crop rotation, soil, fertiliser and water requirements for different vegetable crops, pests and diseases management, responsible use of chemicals, harvesting, storage and marketing of vegetables, as well as economics of vegetable production
DURATION	10 days
FINANCIAL IMPLICATIONS	R1 300 per participant for tuition, R450 per participant for accommodation, R450 per participant for meals

Consumer science

OBJECTIVE	The course deals with the practical and theoretical methods required to assist in catering for functions and residential groups successfully
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: basic equipment used in the catering industry, correct measuring techniques, hygiene in the cooking environment, table setting—formal and informal, cuisines, basic baking, advanced baking, icing batters and doughs, yeast, menu planning, cooking a three course meal, hors-d'oeuvres, and finger meals, buffet
DURATION	10 days

FINANCIAL IMPLICATIONS R1 300 per participant for tuition, R450 per participant for accommodation, R450 per participant for meals

Dairy production

OBJECTIVE The course deals with the practical and theoretical methods required to farm with dairy animals and production systems profitably and successfully

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Introduction and characterisation of breeds, breeds for dairy, breeding and selection, oestrus management, basic husbandry practices and identification, artificial calf rearing, mastitis, basic milk handling and hygiene, care and feeding of replacement heifers and of dry and post-parturient cows, hand and machine milking, condition scoring and visual appraisal, nutritional requirements of a dairy cow as well as basic health management

DURATION 10 days

FINANCIAL IMPLICATIONS R1 300 per participant for tuition, R450 per participant for accommodation, R450 per participant for meals

Beef production

OBJECTIVE The course deals with the practical and theoretical methods required to farm with beef cattle and production systems successfully and profitably

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Introduction and characterisation of breeds, breeds for beef production, breeding and selection, basic husbandry practices and identification, calf rearing, care and feeding of replacement heifers, cow and bull management, condition scoring and visual appraisal, feedlot management, transportation of cattle and marketing

DURATION 10 days

FINANCIAL IMPLICATIONS R1 300 per participant for tuition, R450 per participant for accommodation, R450 per participant for meals

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Potchefstroom College of Agriculture

After completing the courses mentioned below, participants will either be awarded a competency certificate or a certificate of attendance

Artificial insemination

OBJECTIVE The course deals with insemination, i.e. how to inseminate artificially

CONTENT The course offers practical learning experience to participants and covers practical methods of artificial insemination

DURATION 5 days

FINANCIAL IMPLICATIONS R259,40 per participant for tuition only

Financial management

OBJECTIVE	The course deals with basic financial management skills needed to run a farm
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Determination of whether a farm is making a profit or is running at a loss
DURATION	2 days
FINANCIAL IMPLICATIONS	R100 per participant for tuition only

Feedlot management

OBJECTIVE	The course deals with basic methods needed to manage a feedlot
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Housing, feeding, hygiene, purchasing of cattle, finding a market for cattle and the financial management of a feedlot
DURATION	1 day
FINANCIAL IMPLICATIONS	R20 per participant for tuition only

Horticulture

OBJECTIVE	The course deals with basic methods of horticulture needed to a farm effectively
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Soil preparation, fertilising, pest control, weed control, cultivars, compiling a budget and the marketing of horticultural products
DURATION	4 days
FINANCIAL IMPLICATIONS	R80 per participant for tuition only

Small-scale dairying

OBJECTIVE	The course deals with the nutritional management of factors affecting the running of a small dairy herd, including zero-grazing to grazing systems
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Cross-breeding, basic nutrition, supplementary feeding, calf rearing, milking and its handling
DURATION	1 day
FINANCIAL IMPLICATIONS	R20 per participant for tuition only

Welding

OBJECTIVE	The course deals with basic methods of welding
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Welding, safety methods and the use of welding materials
DURATION	4 days
FINANCIAL IMPLICATIONS	R80 per participant for tuition only

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Tompi College of Agriculture

After completion of the courses mentioned below, the participants will either be awarded a certificate of competency or a certificate of attendance

Pig production

OBJECTIVE	The course deals with the practical and theoretical methods of pig production
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Pig breeding, pig nutrition, disease control, management of pigs, pig reproduction, pig housing, project management, pig business management
DURATION	10 days
FINANCIAL IMPLICATIONS	R1 550 per participant for tuition, R100 per participant for accommodation, R400 per participant for meals

Broiler production

OBJECTIVE	The course deals with the practical and theoretical methods of broiler production
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Waste management, diseases in chickens, feeding of chicks, record management, broiler management, poultry housing, brooding management, light management, poultry meat and meat products
DURATION	42 days
FINANCIAL IMPLICATIONS	R4 110 per participant for tuition, R420 per participant for accommodation, R1 680 per participant for meals

Vegetable production

OBJECTIVE	The course deals with the practical methods of vegetable production
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Land demarcation, development of planting soil samplings, fertilisation, planting, irrigation, scouting, identification of pests, diseases, weeds, calibration of sprayers, development of a crop budget, development of a business plan, harvesting, post-harvest handling, marketing
DURATION	100 days
FINANCIAL IMPLICATIONS	R3 996, 18 per participant for tuition, R1 000 per participant for accommodation, R4 000 per participant for meals

Small stock production

OBJECTIVE	The course deals with the management of small stock projects in a sustainable way
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CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Small stock breeding, general flock management, small stock health, small stock feeding, small stock housing, project management, small stock business management

DURATION 10 days

FINANCIAL IMPLICATIONS R1 550 per participant for tuition, R100 per participant for accommodation, R400 per participant for meals

Dairy production

OBJECTIVE The course deals with different breeds, breeding and selection of dairy production

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Breeding and selection process in dairy cattle, nutrition and feeding of dairy cattle, dairy cattle health—diseases and parasites, dairy production records, rearing of calves, marketing of milk and care of dairy cows

DURATION 10 days

FINANCIAL IMPLICATIONS R1 550 per participant for tuition, R100 per participant for accommodation, R400 per participant for meals

Beef production

OBJECTIVE The course deals with the different breeds, breeding and selection process in beef production

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Breeding and selection of beef cattle, nutrition and feeding of beef cattle, beef cattle health—diseases and parasites, beef cattle records, rearing of calves, beef marketing and care of beef cows

DURATION 10 days

FINANCIAL IMPLICATIONS R1 550 per participant for tuition, R100 per participant for accommodation, R400 per participant for meals

Aquaculture

OBJECTIVE The course deals with the practical and theoretical methods of aquaculture

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Identification of potential sites for fish farming, construction of fish ponds, identification and selection of different fish species, stocking of fish, feeding of fish, breeding of fish, netting of fish, harvesting, marketing, water quality management and general management of fish farming

DURATION 60 days

FINANCIAL IMPLICATIONS R980 per participant for tuition, R600 per participant for accommodation, R2 400 per participant for meals

MS Word

OBJECTIVE The course deals with the practical and theoretical applications to use a computer and software

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Windows environment, additional document man-

agement techniques, Word for Windows basics, additional editing techniques and paragraph formatting

DURATION 5 days

FINANCIAL IMPLICATIONS R650 per participant for tuition, R40 per participant for accommodation, R2 000 per participant for meals

MS Excel

OBJECTIVE The course deals with the practical and theoretical applications to use a computer and software

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Excel basics, entering data and navigating in a marksheet, modifying a workbook, moving and copying data, formatting a worksheet, creating charts, modifying a chart sheet, sorting data, auto filler, advanced formula construction and analysis tools

DURATION 5 days

FINANCIAL IMPLICATIONS R650 per participant for tuition, R40 per participant for accommodation, R2 000 per participant for meals

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Tsolo College of Agriculture

After completion of the courses mentioned below the participants will either be awarded a certificate of competency or a certificate of attendance

Broiler production

OBJECTIVE The course deals with modern technology for meat production on a large and small scale

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Nature of local broiler industry, purchasing, transport and receipt of chicks, housing of broiler chicks, feeding of broiler chicks, management of poultry diseases, care of farm animals, record keeping and marketing concept

DURATION 10 days

FINANCIAL IMPLICATIONS R100 per participant for tuition, R200 per participant for accommodation, R1 200 per participant for meals

Pig production

OBJECTIVE The course deals with modern technology of farming with pigs on a small and large scale

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Description of local pig industry, housing of piglets, breeding boar, sow and farrowing sows, feeding of piglets, breeding boar, sow and pregnant sows, management of pig diseases, care of farm animals, general pig husbandry, record keeping and marketing concept

DURATION 5 days

FINANCIAL IMPLICATIONS R100 per participant for tuition, R100 per participant for accommodation, R600 per participant for meals

Egg production

OBJECTIVE The course deals with modern technology of producing eggs on a small and large scale

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Description of local egg industry, housing of birds, feeding of pullets and layers, management of poultry diseases, care of animals and eggs, record keeping, agricultural credit and marketing concept

DURATION 10 days

FINANCIAL IMPLICATIONS: R100 per participant for tuition, R200 per participant for accommodation, R1 200 per participant for meals

Vegetable production

OBJECTIVE The course deals with modern technology of vegetable production on a small and large scale

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Vegetable production in South Africa, pest and disease control, record keeping, marketing concept and agricultural credit

DURATION 5 days

FINANCIAL IMPLICATIONS R100 per participant for tuition, R100 per participant for accommodation, R600 per participant for meals

Field crop production

OBJECTIVE The course deals with modern technology of field crop production on a small and large scale

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Field crop production in South Africa, growing field crops, pest and disease control, crop yield, record keeping, marketing concept and agricultural credit

DURATION 5 days

FINANCIAL IMPLICATIONS R100 per participant for tuition, R100 per participant for accommodation, R600 per participant for meals

Calibration and maintenance of equipment and machinery

OBJECTIVE The course deals with modern technology of machinery and equipment

CONTENT To offer participants the practical learning experience, the course covers the following learning areas: Farm mechanisation, basic tractor maintenance, equipment service and adjustment, calibration of equipment and implements, caring of equipment and machinery

DURATION 5 days

FINANCIAL IMPLICATIONS R100 per participant for tuition, R100 per participant for accommodation, R600 per participant for meals

Sewing

OBJECTIVE	The course deals with modern technology used in the clothing industry
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Handling and using sewing machines, sewing of basic machine stitches, commercial pattern, sewing of different garments, project making, record keeping, marketing concept and agricultural credit
DURATION	30 days
FINANCIAL IMPLICATIONS	R100 per participant for tuition, R600 per participant for accommodation, R3 600 per participant for meals

Baking

OBJECTIVE	The course deals with modern technology of preserving food and related products
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Baking, recipe and ingredients, baking bread, buns, scones, baking faults, serving, record keeping, marketing concept and agricultural credit
DURATION	10 days
FINANCIAL IMPLICATIONS	R100 per participant for tuition, R200 per participant for accommodation, R1 200 per participant for meals

Landcare facilitation course

OBJECTIVE	The course deals with skills on soil, water and nutrient conservation, social facilitation, as well as leadership or management to technical officers working with community groups and other members of the community in landcare groups
CONTENT	To offer participants the practical learning experience, the course covers the following learning areas: Landcare, organic farming, facilitation aspects, PRA toolbox and project planning
DURATION	5 days
FINANCIAL IMPLICATIONS	R100 per participant for tuition, R100 per participant for accommodation, R600 per participant for meals

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