

OCCUPATIONAL QUALIFICATION CURRICULUM DOCUMENT

IN LINE WITH THE QQSF POLICY (2021) OCCUPATIONAL QUALIFICATION TYPE (NOMENCLATURE)

QUALIFICATION	TYPE (NOMENCLATURE)	TITLE (DESCRIPTOR)	NQF LEVEL	CREDITS
	Higher Occupational Certificate	Mixed Crop and Livestock Farmer	5	197
CURRICULUM CODE	613101-000-00-00			
PARTNER DETAILS	ORGANISATION NAME	WEBSITE ADDRESS	TELEPHONE NUMBER	LOGO
QUALITY PARTNER - DEVELOPMENT	Agricultural Sector Education and training Authority (AgriSETA)	www.agriseta.org.za	012 301 5600	
QUALITY PARTNER – ASSESSMENT	Agricultural Sector Education and training Authority (AgriSETA)	www.agriseta.org.za	012 301 5600	

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SECTION 1: CURRICULUM SUMMARY

1.1 Occupational Information:

1.1.1 Associated, Organizing Framework for Occupations (OFO) Occupational Code and Title

613101: Mixed Crop and Livestock Farmer

1.1.2 Occupation/ Specialization/Part-Qualification/Skills Programme Type, Title, NQF Level, Credits and Curriculum Code, addressed by this Curriculum.

TYPE	TITLE	NQF LEVEL	CREDITS	CURRICULUM CODE
Higher Occupational Certificate	Mixed Crop and Livestock Farmer	5	197	613101-000-00-00

1.1.3 Alternative titles used by industry:

None

1.2 Curriculum Information:

1.2.1 Articulation for Qualifications and Part- Qualifications

1. Horizontal Articulation:

This qualification articulates horizontally within the OQSF and between other sub-framework(s) as follows:

Within OQSF -

Occupational Certificate: Crop Produce Analyst, NQF Level 5

Between sub-frameworks –

Higher Certificate in Animal Welfare, NQF Level 5

2. Vertical Articulation:

This qualification articulates vertically within the OQSF as follows:

Occupational Certificate: Quality Manager, NQF Level 6

3. Diagonal Articulation:

This qualification articulates diagonally across NQF levels and across Sub-Frameworks:

Diploma in Agriculture in Mixed Farming, NQF Level 6

Validation of Entry Requirements into articulation possibilities provided:

Yes.

1.3 Curriculum Structure:

1.3.1 Knowledge/Theory Modules:

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-KM-01	Crops and Livestock Management	5	10	Contact / Blended
613101-000-00-KM-02	Management of Agricultural Resources	5	5	Contact / Blended
613101-000-00-KM-03	Integrated Pest and Disease Management in Agriculture	5	5	Contact / Blended
613101-000-00-KM-04	Maturity, Harvesting and Value Addition of Crops and Livestock	5	5	Contact / Blended
613101-000-00-KM-05	Crop Care, Nutrition, and Health Management	5	5	Contact
613101-000-00-KM-06	Livestock Rearing, Nutrition and Health Management	5	10	Contact / Blended
613101-000-00-KM-07	Production Costs, Market and Value Chain Management in Crops and Livestock,	5	10	Contact / Blended
613101-000-00-KM-08	Climate-Resilient Farming and Livestock Management	5	5	Contact / Blended
613101-000-00-KM-09	Legislative Framework, Ethics and Business Principles	4	10	Contact/blended

Total number of credits: 65

1.3.2 Practical Skills Modules:

MODULE CODE	MODULE TITLE	NQF LEVEL	CRE DITS	MODE OF DELIVERY
613101-000-00-PM-01	Manage crops and livestock production practices.	5	10	Contact
613101-000-00-PM-02	Practice sustainable land and resources in management	5	10	Contact
613101-000-00-PM-03	Apply Integrated Pest and Disease Management in Agriculture	5	7	Contact
613101-000-00-PM-04:	Apply Post-Harvest Management and Livestock Weaning	5	10	Contact

613101-000-00-PM-05:	Provide Livestock Nutrition and Shelter	5	5	Contact
613101-000-00-PM-06	Prepare Soil, plant/sow, fertilize, irrigate, control crop pest and diseases of crops	5	10	Contact
613101-000-00-PM-07	Conduct Market Intelligence and Agribusiness Development	5	5	Contact
613101-000-00-PM-08:	Practice Climate-Resilient Farming	5	10	Contact

Total number of credits: 67

1.3.3 Work Experience Modules:

Module ID	Module Title	NQF level	Credits	Mode of delivery
613101-000-00-WM-01	Processes of Integrated Crop-Livestock Farming Systems Management	5	20	Contact
613101-000-00-WM-02	Utilization of Natural Resources in Crop and Livestock Farming	5	10	Contact
613101-000-00-WM-03	Management of Integrated Pest and Disease Practices and Sustainable Strategies for Crops and Livestock Health.	5	10	Contact
613101-000-00-WM-04	Determination of Quality and Market Readiness of Crops and Livestock	5	5	Contact
613101-000-00-WM-05	Management of Livestock Husbandry and Health for Optimal Production and Well-being	5	5	Contact
613101-000-00-WM-06	Soil preparation practices, planting/sowing, plant nutrition, irrigation, pest and disease control of crops	5	5	Contact
613101-000-00-WM-07	Exploring Markets and Establishing Local Relationships	5	5	Contact
613101-000-00-WM-08	Management of Climate-Responsive Practices for Crops and Livestock	5	5	Contact

Total number of credits: 65

1.4 Entry Requirements:

NQF Level 4 Qualification with Agriculture Science/Applied Agriculture/Agricultural Technology or related.

1.5 Recognition of Prior Learning (RPL):

1.5.1 RPL for Access:

Learners may use the RPL process to gain access to training opportunities for a qualification if they do not meet the formal, minimum entry requirements for admission. RPL assessment provides an alternative access route into a qualification. Such an RPL assessment may be developed, moderated and conducted by the accredited Skills Development Provider which offers that specific qualification. Such an assessment must ensure that the learner is able to display the equivalent level of competencies required for access, based on the NQF level descriptors

1.5.2 RPL for Exemption:

For exemption from modules through RPL, learners who have gained the stipulated competencies of the modules of a qualification through any means of formal, informal or non-formal learning and/or work experience, may be awarded credits towards relevant modules, and gaps identified for training, which is then concluded.

1.5.3 RPL for awarding credits:

Learners who have gained the stipulated competencies of the modules of a qualification through any means of formal, informal or non-formal learning and/or work experience, may be awarded credits towards relevant modules, and gaps identified for training, which is then concluded. A valid Statement of Results is required for admission to the EISA in which confirmation of achievement is provided that all internal assessment criteria for all modules in the related curriculum document have been achieved. For a Skills Programme, the accredited Skills Development Provider (SDP) must ensure all modular competency requirements are met prior to the EISA and keep record of such evidence. Upon successful completion of the EISA, RPL learners will be issued with the QCTO certificate for the qualification. Quality Partners are responsible for ensuring the RPL mechanism and process for qualifications is approved by the QCTO.

1.6 Quality Partner for Assessment:

NAME OF BODY:	AgriSETA
ADDRESS OF BODY:	529 Belvedere Street, Arcadia, Pretoria
WEBSITE:	www.agriseta.org.za
TELEPHONE NUMBER:	+27 12 301 5600

1.7 List of Qualification(s)/Part- Qualification(s)/Skills Programme(s) Related to this Curriculum

Occupational Certificate: Livestock Farmer, NQF Level 3

SECTION 2: OCCUPATIONAL/SPECIALISATION/PART-QUALIFICATION/SKILLS PROGRAMME PROFILE

2.1 Purpose:

The purpose of this qualification is to prepare a learner to function as Mixed Crop and Livestock Farmer.

Mixed Crop and Livestock Farmer plan, prepare soil, plant, irrigate, fertilise, manage crop pests and diseases, harvest; and breed, wean, feed, manage livestock pests and diseases, water, and manage veld, harvest and sell both crops and animals.

The qualification also aims to instill commitment to sustainable farming practices among learners. This includes promoting methods that minimize environmental impact, conserve natural resources, and promote biodiversity within farming systems.

2.2 Tasks:

TASK	LINKS TO ELO
Task 1: Cultivate crops and management of livestock	ELO 1: Produce crops and livestock
Task 2: Develop strategies to use natural resources and inputs to optimize productivity and minimize environmental impact.	ELO 2: Apply principles of sustainable resource management for natural resources and inputs utilisation.
Task 3: Implement strategies to control pests and diseases in both crops and livestock	ELO 3: Control pests and diseases in crops and livestock
Task 4: Coordinate the timely harvest of crops and the processing of agricultural products, ensuring quality and market readiness.	ELO 4: Execute harvesting for proper post-harvest handling and processing of agricultural products.
Task 5: Provide proper care, nutrition, and health management for the livestock.	ELO 5: Implement care, nutrition, and healthcare practices for various livestock.
Task 6: Liaise with markets for both crops and livestock products.	ELO 6: Establish relationships with buyers, suppliers, and stakeholders in the agricultural value chain.
Task 7: Implement climate-resilient farming practices to adapt to changing weather conditions.	ELO 7: Apply resilient farming practices to adapt to climate change.

2.3 Occupational Task Details:

2.3.1 Task 1

Cultivate crops and management of livestock

(a) Unique Product or Service:

Optimize crop and livestock operations through sustainable practices and smart technology integration by combining expertise in crop rotation, livestock breeding, sustainable grazing, and agricultural technology, to enhance productivity, profitability, and environmental skill

(b) Responsibilities:

Developing a crop production plan, selecting appropriate crops for the farm, planting calendars, and implementing basic planting techniques

Implement basic livestock management practice such as feeding, watering, and maintaining animal health

Engage in fieldwork, marking boundaries, and implementing rotations to enhance soil fertility and reduce the risk of pests and diseases.

Establish and maintain farm records keeping track of planting and harvesting dates, livestock breeding cycles, and other critical information

(c) Contexts:

Participate in crop rotation, select suitable crop sequences, and observe the impacts on soil health and pest management.

Work with farm animals, observing breeding cycles assisting with feeding, health checks, to gain practical insights into effective livestock management.

Set up rotational grazing systems, monitoring forage availability, and observing the impact of grazing patterns on pasture health and animal well-being.

Coordinate crop and livestock activities, such as using crop residues for animal feed, implementing cover cropping strategies, and observing the symbiotic relationship between crops and livestock

2.3.2. Task 2

Develop strategies to use natural resources and inputs to optimize productivity and minimize environmental impact.

(a) Unique Product or Service:

Promote soil health, conserve water resources, minimize environmental impact, and enhance overall sustainability.

(b) Responsibilities:

Techniques for sustainable land management, including soil conservation methods, erosion control measures, and the implementation of cover crops.

Engage in installing irrigation equipment, monitoring water usage, and adjusting irrigation schedules.

Participate in using precision tools for planting, fertilizing, and pest management to optimize resource use and increase overall efficiency.

Participate in measuring and applying inputs, ensuring proper dosage and timing to minimize waste and environmental impact.

Identify and use the correct mechanization for different purposes

(c) Contexts:

Curriculum: Mixed and Livestock Farmer, NQF Level 5, Credits 197

Using GPS-guided equipment if applicable, implementing variable rate applications of inputs, and observing the impact of precision farming on resource optimization and overall farm productivity.

Setting up and maintaining irrigation systems, monitoring soil moisture levels, and implementing water conservation techniques to optimize water use on the farm.

Apply fertilizers, pesticides, and other inputs, as well as monitoring their effectiveness.

Participate in crop selection, planting schedules, and land-use planning to optimize resource utilization and minimize waste, ensuring sustainable and productive farming practices.

2.3.3 Task 3

Implement strategies to control pests and diseases in both crops and livestock

(a) Unique Product or Service:

Provide support to farmers and livestock producers in managing pests, diseases, and other threats to agricultural productivity.

(b) Responsibilities:

Identify common pests and diseases affecting crops and livestock.

Engage in releasing beneficial insects, setting up traps, and implementing cultural practices to control pests and diseases.

Conduct health checks for livestock, including observing signs of illness, proper handling, and administering vaccinations

Use personal protective equipment and adhering to safety guidelines to minimize environmental impact and ensure safe, responsible and effective chemical pest control.

Identify the correct medication to apply on sick livestock.

Identify the correct agrochemicals for crops that are infected by diseases

(c) Contexts:

Engage in scouting for pests, introducing natural predators, and implementing cultural practices to control pests and diseases in crops.

Participate in quarantine procedures, vaccination administration, and observing biosecurity protocols to prevent and control diseases within the livestock population.

Prepare pesticide solutions and apply them according to recommended guidelines, using personal protective equipment to ensure effective pest control while minimizing environmental impact.

Conduct regular health checks, observe livestock behaviour for signs of illness, and implement disease prevention measures to maintain the overall health of both crops and livestock

2.3.4 Task 4

Coordinate the timely harvest of crops and the processing of agricultural products, ensuring quality and market readiness.

(a) Unique Product or Service:

- Crop harvesting, post-harvest handling, product processing, and market preparation.

(b) Responsibilities:

Determining the optimal timing for harvesting different crops.

Determining the optimal timing for weaning of livestock.

Grading produce, packaging, and implementing storage methods to maintain product quality and extend shelf life.

Participate in activities such as washing, milling, or drying crops, and processing crops products.

Engage in grading and sorting activities, ensuring compliance with market standards, and using quality control tools

(c) Contexts:

Plan the breeding schedules in line with the optimal marketing period.

Plan harvest schedules, organize labour, and oversee the execution of harvest operations to ensure crops are harvested at peak quality.

Sort, clean, date mark and package harvested crops, ensuring proper post-harvest hygiene measures are implemented to maintain product quality.

Milling, drying, or packaging products for market

Grading, sorting, and implementing quality control measures to ensure that processed agricultural products meet market standards and are ready for sale

2.3.5 Task 5

Provide proper care, nutrition, and health management for the livestock.

(a) Unique Product or Service:

Optimize health, well-being, and productivity of livestock, addressing nutritional requirements, health monitoring practices, feed formulation, medication management, animal welfare principles, and reproductive management

(b) Responsibilities:

Participate in preparing feed ratios, measuring feed quantities, and observing animal feeding behavior to ensure proper nutrition for different stages of life.

Check livestock body condition, observe signs of illness, and administering basic veterinary care, including vaccinations and deworming.

Engage in constructing and repairing animal shelters and handling facilities, ensuring proper ventilation, and creating comfortable and clean-living environments for the animals.

Maintaining proper records including breeding cycles to ensure healthy and productive livestock.

Identify different medications for different livestock illnesses

(c) Contexts:

Feeding, watering, and handling animals, maintaining the well-being and comfort of the livestock.

Formulating feed rations, observing feeding imbalance, and adjusting supplements to meet the nutritional needs of different livestock species.

Administer vaccinations, conduct health checks, and assisting with routine medical procedures to ensure the health and disease prevention of the livestock.

Oestrus detection, assisting with breeding activities, and maintaining accurate records of breeding cycles to contribute to the overall reproductive success of the livestock.

2.3.6 Task 6

Liaise with markets for both crops and livestock products.

(a) Unique Product or Service:

Identify niche markets, understand consumer preferences, optimize value chains, add value to agricultural products, and navigate market dynamics

(b) Responsibilities:

Participate in activities such as surveying local market demands, analyzing consumer preferences, and assessing competitors to gain hands-on experience in market dynamics. Prepare and deliver product pitches, negotiate prices, and build networks within the local agricultural community.

Design product packaging, labelling, and creating appealing displays.

Set up stalls at local markets, managing inventory, and organizing distribution routes

Identify and Profile stakeholders in relation to financing, markets

(c) Contexts:

Attend local markets, introduce yourselves to buyers, and participating in community events to establish relationships and appreciate market dynamics.

Set up product displays, designing signage, and communicating product attributes to potential buyers to enhance market visibility.

Negotiating prices with buyers, market demands, and implementing effective sales strategies to maximize returns on their agricultural products.

Tracking market prices, identifying consumer preferences, and seasonal variations to make informed decisions about product offerings and marketing strategies

2.3.7 Task 7

Implement climate-resilient farming practices to adapt to changing weather conditions.

(a) Unique Product or Service:

Strategies to adapt to changing climate conditions and enhance the resilience of agricultural operations, addressing seasonal changes, crop and livestock selection, water management practices, diversification, and adaptive planting schedules

(b) Responsibilities:

Set up rainwater harvesting systems, installing irrigation methods, and managing soil moisture to address water scarcity and fluctuations in precipitation.

Plan and cultivating different crops in a rotational sequence, the benefits of diversification in building resilience against changing climate conditions.

Adjusting planting dates based on weather forecasts, using cover crops to protect against extreme weather events, and adopting agroforestry practices for improved microclimates.

Participate in contour ploughing, establishing cover crops, and constructing check dams to prevent soil erosion and enhance soil resilience against climate-related challenges.

Setting up tunnels to prevent heat, hail or frost damage to plants

(c) Contexts:

Tracking weather patterns, using basic meteorological tools, and interpreting weather forecasts to make informed decisions about farming activities based on changing conditions.

Adjust planting dates, selecting climate-resilient crop varieties, and coordinating harvest schedules to align with changing weather patterns.

Adjust irrigation schedules, implementing water conservation techniques, and making decisions about water usage based on current and predicted weather conditions.

Attend to cover cropping, contour ploughing, and soil amendments to enhance soil health and resilience against extreme weather events.

SECTION 3: CURRICULUM COMPONENT SPECIFICATIONS

3.1 Knowledge Module Specifications:

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-KM-01	Crops and Livestock Management	5	10	Contact / blended
613101-000-00-KM-02	Management of Agricultural Resources	5	5	Contact / blended
613101-000-00-KM-03	Integrated Pest and Disease Management in Agriculture	5	5	Contact / blended
613101-000-00-KM-04	Maturity, Harvesting and Value Addition of Crops and Livestock	5	5	Contact / blended
613101-000-00-KM-05	Crops care, Nutrition and Health Management	5	5	Contact / blended
613101-000-00-KM-06	Livestock rearing, Nutrition, and Health Management	5	10	Contact /blended
613101-000-00-KM-07	Production Costs, Market and Value Chain Management in Crops and Livestock,	5	10	Contact / blended
613101-000-00-KM-08	Climate-Resilient Farming and Livestock Management	5	5	Contact / blended
613101-000-00-KM-09	Legislative Framework, Ethics and Business Principles	4	10	Contact / blended

Detailing Knowledge Module (KM) contents

3.1 Knowledge Module (KM) – 01, 613101-000-00-KM-01, Crops and livestock management, NQF Level 5, Credits 10

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDIT S	MODE OF DELIVERY
613101-000-00-KM-01	Crops and livestock management	5	10	Contact/blended

3.1.1 Module Details:

(a) Purpose of Knowledge Module:

The main focus of learning of this knowledge module is to ensure understanding of livestock and crop management. The learning contact time, which is the time that reflects the required duration of enrolment for this module, is at least 12 days.

Upon completion of the learning learners will be able to demonstrate understanding of the following knowledge topics

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-01-KT01	Crop Production management.	40
KM-01-KT02	Livestock Production management.	40
KM-01-KT03	Sustainable grazing practices.	20

(c) Detailing each topic listed above into topic elements:

KM-01-KT01 Crop production management. 40 %		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Crop selection and production planning	10
KT0102	Soil testing	10
KT0103	Soil preparation	10
KT0104	Fertilizer application	15
KT0105	Crop water management / Irrigation	10
KT0106	Crop planting	10
KT0107	Crop pests and diseases management	15
KT0108	Crop harvesting	10
KT0109	Crop rotation	10

(d) Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Discuss crop selection and production planning	10
IAC0102	Describe the soil characteristics for crop suitability and process of physical and chemical soil testing; and	10
IAC0103	Discuss soil preparation for sustainable crop production	10
IAC0104	Discuss fertilizer application for crop production for optimum yield	15
IAC0105	Discuss soil-crop-water management / Irrigation for optimum yield	10
IAC0106	Explain the planting/ sowing process of various crops.	10
IAC0107	Discuss and explain control of crop pests and diseases management	15

IAC0108	Discuss maturity and harvesting process of various crops	10
IAC0109	Describe crop rotation and its importance in sustainable production	10

KM-01-KT02 Livestock production management. 40%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Livestock production systems.	10
KT0202	Livestock production planning.	15
KT0203	Livestock Breeds, Breeding and Genetics	15
KT0204	Calving/Lambing/Kidding/Furrowing/ Laying season	20
KT0205	Animal identification	20
KT0206	Animal processing	20

(d) Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Explain different types of Production systems.	10
IAC0202	Describe the characteristics of different types of animal breeds.	15
IAC0203	Discuss and outline the production calendar and its activities.	10
IAC0204	Describe and define gestation for various animals.	15
IAC0205	Describe the mating seasons for various animals.	10
IAC0206	Explain the characteristics of breeds and genetical considerations in breeds selection.	10
IAC0207	Explain the importance and different methods of dehorning.	15
IAC0208	Explain the importance of animal identification, types and its application	15

KM-01-KT03 Sustainable grazing practices. 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT

KT0301	Importance of sustainable grazing practices	25
KT0302	Location, climate, field and land types	25
KT0303	Carrying capacity for livestock	25
KT0304	Different grazing methods	25

(d) Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Describe sustainable grazing practices.	25
IAC0302	Explain different climate for various geographical area of grazing	25
IAC0303	Define and describe the carrying capacity of grazing and its use in sustainable veld management.	25
IAC0304	Discuss the different grazing methods for livestock	25

3.1.2 Criteria for accreditation

Requirements, against which Skills Development Providers (SDP) and Assessment Centers, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, sufficient lighting and ventilation Whiteboards, data projector and screen Computer, internet access, applicable software. Ablutions facilities. Curriculum Aligned Learning Material Quality Management System Learner Management Information System
CONSUMABLES	Seeds, Fertilizers, Pesticides and Herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products Markers, pencil, flipcharts, clipboard, notepad

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must hold a minimum of NQF Level 6 qualification in Agriculture with 3 years working experience in Crop and Livestock production environment.
FACILITATOR/LEARNER RATIO	1:30

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Duly appointed Examination Officer. Appointed and trained Invigilators and Chief Invigilator.
INVIGILATOR/LEARNER RATIO	1:20

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within the premises Compliant to POPI Act Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within premises Compliant to POPI Act Valid Lease Agreement / Title deed

3.1.3 Exemptions

None

3.2 Knowledge Module (KM)- 02: 613101-000-00-KM-02, Management of Agricultural resources, NQF Level 5, Credits 5

NB: MODE OF DELIVERY e.g. face-to-face/contact, online, e-learning, mobile training unit, blended, distance, etc

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-KM-02	Management of Agricultural resources	5	5	Contact

3.2.1. Module Details:

Purpose of Knowledge Module:

The main focus of the module is to ensure the understanding of utilization of resources.

The learning contact time, which is the time that reflects the required duration of enrolment for this module, is at least 6 days

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-02-KT01	Different types of soil	10
KM-02-KT02	Sustainable land practices	20
KM-02-KT03	Water conservation strategies	20
KM-02-KT04	Use of fertilizers, pesticides and agrochemicals	20
KM-02-KT05	Carbon footprint, biodiversity	10
KM-02-KT06	Livestock housing	20

(c) Detailing each topic listed above into topic elements:

KM-02-KT01 Different Types of soil. 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Characteristics and benefits of soil types	33
KT0102	Types of soil suitable for planting crops	33
KT0103	Ways of conserving soil	34

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Describe characteristics and benefits of soil types	33
IAC0102	Explain types of soil suitable for planting crops	33
IAC0103	Discuss several ways of conserving soil.	34

KM-01-KT02 Sustainable land practices 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Sustainable land management practices	10
KT0202	Causes of land degradation	15
KT0203	Importance of soil health	15
KT0204	Importance of water in sustainable land management	15
KT0205	Importance of biodiversity conservation in sustainable land management	15
KT0206	Climate change mitigation (agroforestry, reforestation and carbon farming)	15
KT0207	Principles of sustainable agriculture, such as organic farming, agroecology, and regenerative agriculture	15

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
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IAC0201	Explain principles of sustainable land management including environmental, social and economic aspects.	10
IAC0202	Discuss the impact of land degradation on ecosystems and human communities.	15
IAC0203	Discuss practices for improving soil health.	15
IAC0204	Discuss practices of water conservation in land management.	15
IAC0205	Discuss practices for conserving biodiversity in agricultural production	15
IAC0206	Explain climate change mitigation practices	15
IAC0207	Explain principles of sustainable agriculture	15

KM-02-KT03 Water conservation strategies 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Water conservation in agriculture	10
KT0302	Impact of water scarcity in agricultural production	10
KT0303	Rainwater harvesting and construction of water dams	10
KT0304	Optimal use of water and irrigation in agriculture	10
KT0305	Protection of ground water and prevention of water leakages	15
KT0306	Importance of water quality and availability	15
KT0307	Protection of wetlands	15
KT0308	Importance of water regulations (licenses, water boards, quotas and tariffs)	15

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Discuss water conservation in agriculture.	10
IAC0302	Discuss impact of water scarcity in agriculture.	10
IAC0303	Discuss rainwater harvesting and construction of water dams	15
IAC0304	Explain optimal use of water and irrigation in agricultural production	15

IAC0305	Discuss the protection of ground water and prevention of water leakages	15
IAC0306	Explain the importance of water quality and its availability for environmental sustainability.	15
IAC0307	Describe the role and significance of wetland protection in maintaining biodiversity and water resources.	10
IAC0308	Analyze the importance of water regulations, including licenses, water boards, quotas, and tariffs, in managing water resources.	10

KM-02-KT05 Carbon footprint, biodiversity 10%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0501	Carbon footprint	20
KT0502	Carbon footprint in agriculture and its mitigation measures	20
KT0503	Importance of biodiversity in maintaining healthy ecosystem	20
KT0504	Threats to biodiversity	20
KT0505	Importance of conserving biodiversity	20

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0501	Discuss the importance of reducing carbon emissions and the role of individuals and organizations in reducing carbon emissions to address climate change.	20
IAC0502	Explain how sustainable farming practices contribute to reducing the carbon footprint.	20
IAC0503	Describe the benefits of biodiversity in maintaining ecological balance	20
IAC0504	Describe the threats that impact ecosystems explaining their consequences.	20
IAC0505	Explain various ways to conserve biodiversity and promote environmental sustainability.	20

KM-02-KT06 Livestock housing 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0601	Livestock housing and its importance to livestock farming	10
KT0602	Different types of livestock housing	15
KT0603	Livestock housing design requirements	15
KT0604	Facilities for feed and water in livestock housing	15
KT0605	Importance of waste management in livestock housing	10
KT0606	Importance of health and welfare in livestock housing	10
KT0607	Importance of biosecurity in livestock housing	10
KT0608	Regulations and standards that govern livestock housing	10

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0601	Explain the principles of livestock housing	5
IAC0602	Describe how the design and construction of livestock housing affect animal welfare, productivity, and environmental impact.	10
IAC0603	Explain the role of ventilation in regulating temperature, humidity, and air quality.	10
IAC0604	Discuss how temperature affects animal health, productivity, and welfare.	10
IAC0605	Explain how lighting influences animal behavior, health, and productivity.	10
IAC0606	Describe how space requirements vary depending on the size, age, and breed of animals.	10
IAC0607	Explain how to ensure animals have continuous access to clean and fresh feed and water.	10
IAC0608	Describe methods for disposing manure, urine, and other waste products to minimize environmental impact and prevent disease spread.	10
IAC0609	Explain how to monitor and maintain animal health and welfare, and identify signs of illness, injury, or distress.	10

IAC0610	Describe strategies for preventing the introduction and spread of diseases, parasites, and pests.	5
IAC0611	Explain how to comply with regulations and standards for livestock housing.	10

3.2.2 Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, sufficient lighting and ventilation Whiteboards, data projector and screen Computer, internet access, applicable software. Ablutions facilities. Curriculum Aligned Learning Material Quality Management System Learner Management Information System
CONSUMABLES	Seeds, Fertilizers, Pesticides and Herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products Markers, pencil, flipcharts, clipboard, notepad

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must hold a minimum of NQF Level 6 qualification in Agriculture with 3 years working experience in Crop and Livestock production environment.
FACILITATOR/LEARNER RATIO	1:30

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Duly appointed Examination Officer. Appointed and trained Invigilators and Chief Invigilator.
INVIGILATOR/LEARNER RATIO	1:20

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within the premises Compliant to POPI Act Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within premises Compliant to POPI Act Valid Lease Agreement / Title deed

3.2.3 Exemptions

None

3.3 Knowledge Module (KM)- 03: 613101-000-00-KM-03, Integrated Pest and Disease Management in Crops and Livestock, NQF Level 5, Credits 5

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-KM-03	Integrated Pest, Weeds and Disease Management in Crops and Livestock	5	5	Contact/ blended

3.3.1 Module details

(a) Purpose of Knowledge Module:

The main focus of learning in this knowledge module to provide knowledge needed to control pests and diseases in a sustainable and environmentally friendly manner. The learning contact time, which is the time that reflects the required duration of enrolment for this module, is at least 6 days. Upon completion of learning learners will be able to demonstrate understanding of the following knowledge topics.

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-03-KT01	Integrated Pest, and Disease Management	20
KM-03-KT02	Common pests and disease identification	20
KM-03-KT03	Monitoring pests' population, weeds and disease types and their impact on crops and livestock	20
KM-03-KT04	Pests and disease prevention and control practices	20
KM-03-KT05	Methods of chemical control	20

(c) Detailing each topic listed above into topic elements:

KM-03-KT01 Integrated Pest and Disease Management 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Integrated Pest and Diseases Management and its importance in sustainable agriculture	33
KT0102	Key concepts related to Integrated Pest and Diseases Management	33
KT0103	Benefits of implementing Integrated Pest and Diseases Management	34

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Define and discuss Integrated Pest and Disease Management and its importance in sustainable agriculture.	33
IAC0102	Explain key concepts related to Integrated Pest and Diseases Management, prevention, monitoring, and control strategies.	34
IAC0103	Describe the benefits of Integrated Pest and Diseases Management in improving crop and livestock health while minimizing environmental impact.	33

KM-03-KT02 Common pests and diseases identification 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Pests and Diseases in agriculture	10
KT0202	Various stages of common Pests and Diseases development	10
KT0203	Common Pests and Diseases that affect crops and livestock	20
KT0204	Environmental factors influencing Pest and Diseases incidence	20
KT0205	Monitor crops and livestock signs and symptoms of pests and diseases	20
KT0206	Pests and diseases control measures in crops and livestock	20

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Explain the significance of pests and diseases in crop and livestock production and their impact on yield and productivity.	10
IAC0202	Describe the life cycle of common pests and diseases affecting crops and livestock.	10
IAC0203	Explain characteristics and symptoms of common pests and diseases in crops and livestock.	20

IAC0204	Analyze the influence of environmental factors on the occurrence and spread of pests and diseases.	20
IAC0205	Explain the importance of early detection in managing crop and livestock pests and diseases effectively.	20
IAC0206	Describe the control and preventative measures used in Integrated Pest and Disease Management to minimize risks and enhance sustainability.	20

KM-03-KT03 Monitoring pests' population, disease types and their impact on crops and livestock 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Monitoring pests, weeds and diseases in crops and livestock	15
KT0302	Techniques for monitoring pests, weeds and diseases in crops and livestock	15
KT0303	Pests, weeds and diseases identification and control	20
KT0304	Pest, weeds and diseases scouting and monitoring	20
KT0305	Environmental factors influencing pests, weeds and diseases incidence	15
KT0306	Monitoring as a key concept of Integrated Pest and Diseases Management	15

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Explain the significance of monitoring crops and livestock in maintaining health and productivity.	15
IAC0302	Describe techniques for monitoring pests, weeds and diseases in crops and livestock.	20
IAC0303	Explain the process of identifying and controlling pests, weeds and diseases in agricultural production.	20
IAC0304	Describe how data is used to assess the severity of infestations or disease outbreaks.	15
IAC0305	Analyze the influence of environmental factors on the occurrence and spread of pests, weeds and diseases.	15

IAC0306	Explain how monitoring helps in identifying and prioritizing control measures for pests, weeds and diseases.	15
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KM-03-KT04 Pests and diseases prevention and control practices. 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0401	Practices that help prevent and control pest and diseases in crops and livestock	33
KT0402	Physical control methods	33
KT0403	Biological control methods	34

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0401	Explain the role of practices such as crop rotation, planting resistant varieties, and managing irrigation and drainage in pest and disease management.	33
IAC0402	Describe physical control methods and the removal or destruction of infested plants.	33
IAC0403	Discuss biological control methods, the use of natural predators or parasites to regulate pest populations.	34

KM-03-KT05 Methods of chemical control. 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0501	Context of Chemical Control in agriculture	25
KT0502	Types of Chemical Control used on crops and livestock	25
KT0503	Application techniques of chemical control products	25
KT0504	Safe use and application of chemicals	25

(Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0501	Explain the significance of chemical control in crop and livestock production and its role in managing pests and diseases.	25

IAC0502	Describe common types of chemical control methods used in crops and livestock production	25
IAC0503	Discuss different application techniques for chemical control products	25
IAC0504	Explain the importance of using chemical control products safely and responsibly	25

3.3.2 Criteria for accreditation

Add additional line spaces as required. Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, sufficient lighting and ventilation Whiteboards, data projector and screen Computer, internet access, applicable software. Ablutions facilities. Curriculum Aligned Learning Material Quality Management System Learner Management Information System
CONSUMABLES	Seeds, Fertilizers, Pesticides and Herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products Markers, pencil, flipcharts, clipboard, notepad

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must hold a minimum of NQF Level 6 qualification in Agriculture with 3 years working experience in Crop and Livestock production environment.
FACILITATOR/LEARNER RATIO	1:30

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Duly appointed Examination Officer. Appointed and trained Invigilators and Chief Invigilator.
INVIGILATOR/LEARNER RATIO	1:20

Curriculum: Mixed and Livestock Farmer, NQF Level 5, Credits 197

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within the premises Compliant to POPI Act Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within premises Compliant to POPI Act Valid Lease Agreement / Title deed

3.3.3 Exemptions

None

3.4 Knowledge Module (KM) – 04: 613101-000-00-KM-04: Harvesting and Value Addition of Crops and Livestock market readiness, NQF Level 5, Credits 5:

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-KM-04	Harvesting and Value Addition of Crops and Livestock market readiness	5	5	Contact

3.4.1 Module Details**(a) Purpose of Knowledge Module:**

The main focus of learning in this knowledge module is to ensure the quality, safety, and marketability of agricultural products, while also maximizing their economic value. The learning contact time, which is the time that reflects the required duration of enrolment for this module, is at least 6 days

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-04-KT01	Concepts and importance of timely harvesting	25
KM-04-KT02	Concepts and importance of crops post-harvest handling	25

KM-04-KT03	Concepts and importance of value adding	25
KM-04-KT04	Livestock market readiness	25

(c) Detailing each topic listed above into topic elements:

KM-04-KT01 Concepts and importance of harvesting. 25%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Factors influencing the timing of harvest	25
KT0102	Techniques for determining crop maturity	25
KT0103	Tools and equipment for harvesting	25
KT0104	Practices for safe post-harvesting handling	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Explain the factors influencing the timing of harvest and their impact on crop quality and yield.	25
IAC0102	Describe techniques for determining crop maturity.	25
IAC0103	Describe the tools and equipment used for harvesting.	25
IAC0104	Explain safety measures for harvesting.	25

KM-04-KT02 Concepts and importance of post-harvest handling 25%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Principles of post-harvest handling	15
KT0202	Techniques for cleaning and sanitizing harvesting equipment and facilities	15
KT0203	Methods for sorting and grading crops, such as appearance, shape, size, color, and weight.	20
KT0204	Storage conditions for different crops, such as temperature, humidity, and ventilation	15
KT0205	Transportation methods for different crops, such as refrigerated trucks, containers, and air freight	15
KT0206	Quality control measures for post-harvest handling	20

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Explain the importance of post-harvest handling in maintaining crop quality and ensuring food safety.	10
IAC0202	Describe techniques for cleaning and sanitizing equipment and facilities used in post-harvest handling.	10
IAC0203	Explain methods for sorting and grading crops based on their characteristics.	20
IAC0204	Describe storage conditions for different crops.	20
IAC0205	Explain transportation methods for different crops.	20
IAC0206	Describe quality control measures for post-harvest handling to ensure crop quality and safety.	20

KM-04-KT03 Concepts and importance of value adding 25%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Importance of value addition	15
KT0302	Principles of value addition, such as processing, packaging, and marketing	15
KT0303	Techniques for adding value to agricultural products, such as drying, canning, freezing, and fermenting	15
KT0304	Packaging materials and methods for adding value to agricultural products, such as labels, seals, and branding	15
KT0305	Quality control measures for value-added products, such as inspection, testing, and certification	20
KT0306	Regulatory requirements for value-added products, such as labelling, packaging, traceability and safety standards	20

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Explain the importance of value adding in increasing the economic value of agricultural products.	15
IAC0302	Describe the principles of value adding in processing, packaging, and marketing.	15

IAC0303	Explain techniques for adding value to agricultural products.	15
IAC0304	Describe packaging materials and methods used in value adding.	15
IAC0305	Discuss quality control measures for value-added products.	20
IAC0306	Explain regulatory requirements for value-added products, labeling, packaging, traceability, and safety standards.	20

Detailing each topic listed above into topic elements:

KM-04-KT04 Livestock market readiness 25%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0401	Categories of different livestock grades	20
KT0402	Weaning livestock for market	20
KT0403	Concept of backgrounding and feed lotting	20
KT0404	Packaging materials and methods for adding value to agricultural products, such as labels, seals, and branding	20
KT0405	Weighing of animals	20

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0401	Describe the different categories of livestock grades and their significance in production and marketing.	25
IAC0402	Explain how to identify weaners that are ready for the market based on physical and physiological indicators.	25
IAC0403	Describe the concepts of backgrounding and feed lotting, and their role in livestock production.	25
IAC0404	Explain the importance of weighing animals and the process involved in accurate measurement for monitoring growth and market readiness.	25

3.4.2 Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, sufficient lighting and ventilation Whiteboards, data projector and screen Computer, internet access, applicable software. Ablutions facilities. Curriculum Aligned Learning Material Quality Management System Learner Management Information System
CONSUMABLES	Seeds, Fertilizers, Pesticides and Herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products Markers, pencil, flipcharts, clipboard, notepad

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must hold a minimum of NQF Level 6 qualification in Agriculture with 3 years working experience in Crop and Livestock production environment.
FACILITATOR/LEARNER RATIO	1:30

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Duly appointed Examination Officer. Appointed and trained Invigilators and Chief Invigilator.
INVIGILATOR/LEARNER RATIO	1:20

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within the premises Compliant to POPI Act Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within premises Compliant to POPI Act Valid Lease Agreement / Title deed

3.4.3. Exemptions

None

3.5. Knowledge Module (KM) – 05, 613101-000-00-KM-05, Crop Care, Nutrition, and Health Management, NQF Level 5, Credits 10

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-KM-05	Crop Care, Nutrition, and Health Management	5	5	Contact

3.5.1 Module Details

Purpose of Knowledge Module:

The main focus of learning in this knowledge module is to ensure that learners have knowledge to manage crop care, nutrition, and health effectively within a mixed crop and livestock farming system.

List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-05-KT01	Crop Care	20
KM-05-KT02	Soil Health and Fertility Management	20
KM05-KT03	Crop Nutrition Management	20

KM05-KT04	Pest, Disease, and Weed Management	20
KM05-KT04	Water Management for Crop Health	20

) Detailing each topic listed above into topic elements:

KM-05-KT01 Introduction to Crop Care. 25%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Overview of crop production systems (e.g., monoculture, polyculture)	25
KT0102	Importance of crop care in maximizing yields	25
KT0103	The relationship between crop care and environmental health	25
KT0104	Role of crop care in food security	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Explain the differences between monoculture and polyculture crop production systems	25
IAC0102	Identify the key factors that influence crop yields	25
IAC0103	Discuss the relationship between crop care and environmental health.	25
IAC0104	Explain the role of crop care in ensuring food security	25

KM-05-KT02 Soil Health and Fertility Management. 25%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Types of soils and their impact on crop growth	20
KT0202	Soil deficiencies and imbalances	20
KT0203	Techniques for improving soil fertility	20
KT0204	Role of compost and organic amendments in soil health	20
KT0205	Practices for preventing soil erosion	20

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Describe common soil deficiencies and imbalances that effects crops.	15
IAC0202	Explain techniques for improving soil fertility and the use of chemical or organic fertilizers.	15
IAC0203	Explain the role of compost and organic amendments in enhancing soil health	15
IAC0204	Explain practices for preventing soil erosion	15
IAC0205	Discuss the relationship between soil health and crop productivity.	20
IAC0206	Identify different types of soils how each type impacts crop growth and root development.	20

KM-05-KT03 Crop Nutrition Management. 25%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Role of primary nutrients (Nitrogen, Phosphorus, Potassium) in crop growth	25
KT0302	Types of fertilizers: Inorganic, organic, and slow-release fertilizers	25
KT0303	Methods of fertilizer application: Broadcasting, fertigation, foliar feeding	25
KT0304	Use of biological fertilizers and soil enhancers	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Explain the role of primary nutrients (Nitrogen, Phosphorus, Potassium) in crop growth	20
IAC0302	Identify the different types of fertilizers	20
IAC0303	Describe the various methods of fertilizer application for different crops.	20
IAC0304	Explain the use of biological fertilizers and soil enhancers, highlighting their benefits for soil health	20
IAC0305	Discuss advantages and disadvantages of inorganic vs organic fertilizers in terms of crop yield	20

KM-05-KT04 Pest, Disease, and Weed Management. 25%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0401	Common plant diseases and their symptoms	25
KT0402	Common pests and their lifecycle (insects, nematodes)	25
KT0403	Strategies for disease prevention and control	25
KT0404	Major weed species and their impact on crop growth	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0401	Describe common plant diseases and their symptoms	20
IAC0402	Explain the life cycle of common pests and their potential impact on crop growth.	15
IAC0403	Explain various disease prevention and control and their effectiveness for different crops.	20
IAC0404	Describe major weed species in crop.	15
IAC0405	Explain integrated pest management (IPM) approaches for pest control on crops.	15
IAC0406	Discuss the importance of early pest and disease detection in minimizing damage	15

KM-05-KT05 Water Management for Crop Health. 25%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0501	Overview of irrigation methods: Drip, sprinkler, furrow, and flood irrigation	25
KT0502	Water use efficiency and reducing water wastage	25
KT0503	Water quality for irrigation purposes	25
KT0504	Water conservation: Rainwater harvesting, mulching, soil moisture management	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0501	Explain the different irrigation methods and their suitability for various crops.	20
IAC0502	Discuss irrigation methods in terms of water use efficiency	15
IAC0503	Discuss water use and irrigation.	20
IAC0504	Discuss the factors affecting water quality their impact on crop growth	15
IAC0505	Describe water conservation practices	15
IAC0506	Explain the role of water management in reducing water wastage	15

3.5.2 Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, sufficient lighting and ventilation Whiteboards, data projector and screen Computer, internet access, applicable software. Ablutions facilities. Curriculum Aligned Learning Material Quality Management System Learner Management Information System
CONSUMABLES	Seeds, Fertilizers, Pesticides and Herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products Markers, pencil, flipcharts, clipboard, notepad

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must hold a minimum of NQF Level 6 qualification in Agriculture with 3 years working experience in Crop and Livestock production environment.

FACILITATOR/LEARNER RATIO	1:30
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ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Duly appointed Examination Officer. Appointed and trained Invigilators and Chief Invigilator.
INVIGILATOR/LEARNER RATIO	1:20

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within the premises Compliant to POPI Act Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within premises Compliant to POPI Act Valid Lease Agreement / Title deed

3.5.3. Exemptions

None

3.6. Knowledge Module (KM) – 06, 613101-000-00-KM-06, Livestock Rearing, Nutrition, and Health Management, NQF Level 5, Credits 10

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-KM-06	Livestock rearing, Nutrition, and Health Management	5	5	Contact

3.6.1 Module Details

(a) Purpose of Knowledge Module:

The focus of the learning in this knowledge module is to ensure the well-being, productivity, and profitability of livestock in agriculture. The learning contact time, which reflects the required duration of enrolment for this module, is at least 12 days

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM05-KT01	Livestock rearing essential for livestock health and welfare	20
KM05-KT02	Livestock nutrition is essential for growth, development and performance	40
KM05-KT03	Livestock health management is crucial for preventing and controlling diseases	40

(c) Detailing each topic listed above into topic elements:

KM05-KT01 Livestock rearing essential for livestock health and welfare. 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Importance of livestock rearing for animal welfare, health, and productivity	10
KT0102	Principles of livestock rearing such as providing clean water, nutritious feed, suitable housing, and appropriate handling	10
KT0103	Monitoring and managing the physical, mental, and behavioral needs of animals	10
KT0104	Techniques for handling and restraining animals safely and humanely	15
KT0105	Common health and welfare issues in livestock and how to identify and address them	10
KT0106	Biosecurity measures to prevent the introduction and spread of livestock diseases	15

KT0107	Legal and ethical considerations in livestock rearing, such as animal welfare laws and industry standards	15
KT0108	Record-keeping and documentation for livestock rearing, such as health records and treatment logs	15

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Explain the importance of livestock rearing in ensuring animal welfare, health, and productivity.	10
IAC0102	Describe the principles of livestock rearing and handling.	10
IAC0103	Explain how to monitor and manage the physical, mental, and behavioral needs of livestock.	10
IAC0104	Discuss techniques for handling and restraining animals safely and humanely.	15
IAC0105	Explain common health and welfare issues in livestock and how to identify and address them.	10
IAC0106	Describe biosecurity measures that help prevent the introduction and spread of diseases in livestock.	15
IAC0107	Explain legal and ethical considerations in livestock care, welfare laws and industry standards.	15
IAC0108	Describe the importance of record-keeping and documentation for livestock care	15

KM-05-KT02 Livestock nutrition essential for growth, development and performance 40%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Basic nutritional requirements of different livestock types and their requirements depending on factors such as age, sex, breed and physiological status (e.g. gestation, lactation) is explained	10
KT0202	Different feed sources and formulations available for livestock	10
KT0203	Feeding strategies for different livestock types	10
KT0204	Common nutritional deficiencies and imbalances in livestock	15
KT0205	Different feeding systems and equipment available for livestock	10
KT0206	Practices that can affect feed intake and utilization	15

KT0207	Special feeding considerations during critical stages of life	15
KT0208	Monitor and assess the performance of livestock	15

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Explain the basic nutritional requirements of different livestock types.	10
IAC0202	Describe the different feed sources available for livestock.	10
IAC0203	Explain how to adjust rations based on factors such as feed availability, cost, and environmental conditions.	10
IAC0204	Discuss feeding strategies for different livestock species and the importance of providing a consistent and balanced diet.	15
IAC0205	Explain methods to identify and prevent nutritional deficiencies and imbalances.	10
IAC0206	Describe ways to select and use feeding systems and equipment to optimize feed efficiency and promote animal health and welfare.	15
IAC0207	Explain how to monitor feed consumption and body condition to ensure proper growth, development, and performance.	15
IAC0208	Describe how to monitor and assess the performance of livestock in relation to their nutrition and health.	15

KM-05-KT03 Livestock health management crucial for preventing and controlling diseases 40%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Introduction to livestock health management	10
KT0302	Principles of livestock health management, such as biosecurity, vaccination, and quarantine	15
KT0303	Techniques for Monitoring and Managing Livestock Health	20
KT0304	Common diseases and health issues in livestock, such as respiratory diseases, gastrointestinal diseases, and reproductive disorders	20
KT0305	Vaccination protocols for different livestock types and diseases	20
KT0306	Importance of record-keeping and documentation in livestock health management, such as health records and treatment logs	15

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Explain the importance of livestock health management in preventing and controlling diseases.	10
IAC0302	Describe the principles of livestock health management to prevent and control diseases.	10
IAC0303	Discuss techniques for monitoring and managing the health status of animals.	20
IAC0304	Describe the causes, symptoms, and treatments for common animal diseases and health issues.	20
IAC0305	Explain the importance of vaccination in preventing diseases and maintaining herd health.	20
IAC0306	Discuss strategies to minimize the risk of disease outbreaks and the spread of infections in livestock populations.	10
IAC0307	Explain the importance of maintaining accurate and up-to-date health records.	10

3.6.2 Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, sufficient lighting and ventilation Whiteboards, data projector and screen Computer, internet access, applicable software. Ablutions facilities. Curriculum Aligned Learning Material Quality Management System Learner Management Information System
CONSUMABLES	Seeds, Fertilizers, Pesticides and Herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products Markers, pencil, flipcharts, clipboard, notepad

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must hold a minimum of NQF Level 6 qualification in Agriculture with 3 years working experience in Crop and Livestock production environment.
FACILITATOR/LEARNER RATIO	1:30

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Duly appointed Examination Officer. Appointed and trained Invigilators and Chief Invigilator.
INVIGILATOR/LEARNER RATIO	1:20

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within the premises Compliant to POPI Act Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within premises Compliant to POPI Act Valid Lease Agreement / Title deed

3.6.3 Exemptions

None

3.7. Knowledge Module (KM) – 07, 613101-000-00-KM-07, Production Costs, Market and value chain management in Crops and Livestock, NQF Level 5, Credits 10

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-KM-07	Production costs, market and value chain Management in crops and Livestock	5	10	Contact, online or blended

3.7.1 Module Details

Purpose of Knowledge Module:

The main focus of learning in this knowledge module is to ensure understanding of planning, organization, and coordination of activities involved in the production, processing, distribution, and marketing of agricultural products to maximize the benefits for farmers, consumers, and other stakeholders. The learning contact time, which reflects the required duration of enrolment for this module, is at least 12 days

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-07-KT01	Key stakeholders along the value chain	10
KM-07-KT02	Market opportunities and identifying market trends	20
KM07-KT03	Market Segmentation	10
KM07-KT04	Market-related transaction costs and logistics management	20
KM07-KT05	Costs of production and Pricing and Consumers Product Value	20
KM07-KT06	Marketing of Crops and Livestock	20

(c) Detailing each topic listed above into topic elements:

KM-07-KT01 Key stakeholders along the value chain. 10 %		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	The roles of key stakeholders along the value chain	40
KT0102	The relationship between the farmer and key stakeholders along the value chain	40
KT0103	Communication and interpersonal skills	10

KT0104	The role of teamwork and time management	10
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Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Describe the key stakeholders along the livestock production value chain and their roles.	40
IAC0102	Explain the relationship between the farmer and key stakeholders along the value chain.	40
IAC0103	Explain the importance of communication and interpersonal skills in fostering effective relationships along the value chain.	10
IAC0104	Describe the role of teamwork and time management in ensuring the smooth operation of the value chain.	10

KM-07-KT02 Market opportunities and identifying market trends 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Concept of market opportunities and factors influencing them	25
KT0202	Consumer needs and preferences, identifying market opportunities, and assessing competition	25
KT0203	Concepts of market demand and supply	25
KT0204	Government regulations and policies in shaping agricultural markets, including food safety standards, trade agreements, and subsidies	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Explain the concept of market opportunities and the factors influencing them in the sector.	25
IAC0202	Describe consumer needs and preferences for a specific agricultural product.	25
IAC0203	Explain how changes in demand or supply affect agricultural markets.	25

IAC0204	Describe the role of government regulations and policies in shaping agricultural markets.	25
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KM-07-KT03 Market Segmentation 10%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Concept of market segmentation	25
KT0302	Different types of market segmentation, including formal and informal market	25
KT0303	Identifying niche market	25
KT0304	The effects of market segmentation on the marketing mix (product, price, place, promotion), including how different segments may have different needs and preferences	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Discuss the concept of market segmentation including its definition, purpose, and benefits for marketing strategies.	25
IAC0302	Describe the different types of market segmentation.	25
IAC0303	Explain identification of a niche market and its importance in marketing strategies.	25
IAC0304	Discuss development of a marketing mix plan tailored to different market segments	25

KM-07-KT04 Market related risks, transaction costs and logistics 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0401	Costs related to transactions	25
KT0402	Strategies to minimize transaction costs	25
KT0403	Key components of the supply chain, including producers, processors, distributors, retailers, and consumers, and how they interact to create value	25
KT0404	Managing market risks	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0401	Describe and differentiate various transaction costs in agricultural value chains.	25
IAC0402	Explain strategies to minimize transaction costs in agricultural transactions.	25
IAC0403	Discuss the benefits of sustainable supply chain practices for agricultural producers, processors, and consumers.	25
IAC0404	Discuss management of different market risks in the agricultural sector.	25

KM-07-KT05 Costs of production, Pricing and Consumer product value 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0501	Types of costs involved in agricultural production	25
KT0502	Principles of calculating cost per unit product (e.g. Cost per Ha, per animal)	25
KT0503	Concept of break-even analysis	25
KT0504	Different pricing strategies	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0501	Explain the types of costs involved in agricultural production, including fixed costs (e.g., land, equipment), variable costs (e.g., seeds, fertilizers), and operating costs (e.g., labour, utilities).	25
IAC0502	Describe the principles of calculating cost per unit product.	25
IAC0503	Explain the concept of break-even analysis and how it can be used to set prices, including its purpose (i.e., determining the minimum sales volume needed to cover costs) and how it can be used to set prices.	25

IAC0504	Describe the different pricing strategies used in agricultural production.	25
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KM-07-KT06 Marketing of Crops and livestock 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0601	Marketing crops and livestock	25
KT0602	Different platforms to use for marketing (auctions, fresh produce markets)	25
KT0603	Different platforms for advertising including ecommerce, social media and other traditional platforms	25
KT0604	Importance of local and exports markets	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0601	Explain the concept of marketing for crops and livestock.	25
IAC0602	Describe different platforms used for marketing agricultural products	25
IAC0603	Discuss various platforms for advertising agricultural products,	25
IAC0604	Explain the importance of local and export markets for agricultural products.	25

3.7.2 Criteria for accreditation

Add additional line spaces as required. Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, sufficient lighting and ventilation Whiteboards, data projector and screen Computer, internet access, applicable software. Ablutions facilities. Curriculum Aligned Learning Material Quality Management System Learner Management Information System
CONSUMABLES	Seeds, Fertilizers, Pesticides and Herbicides Mulch, Plant stakes, Twine, Row covers

	Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products Markers, pencil, flipcharts, clipboard, notepad
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Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must hold a minimum of NQF Level 6 qualification in Agriculture with 3 years working experience in Crop and Livestock production environment.
FACILITATOR/LEARNER RATIO	1:30

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Duly appointed Examination Officer. Appointed and trained Invigilators and Chief Invigilator.
INVIGILATOR/LEARNER RATIO	1:20

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within the premises Compliant to POPI Act Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within premises Compliant to POPI Act Valid Lease Agreement / Title deed

3.7.3 Exemptions

None

3.8. Knowledge Module (KM) - 08: 613101-000-00-KM-08 Climate-Resilient Farming and Livestock Management, NQF Level 5, Credits 5.

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-KM-07	Climate-Resilient Farming and Livestock Management	5	5	Contact/blended

3.8.1 Module Details

(a) Purpose of Knowledge Module:

The main focus of learning in this knowledge module is to ensure understanding of tools necessary to adapt farming practices to changing climate conditions. The learning contact time, which is the time that reflects the required duration of enrolment for this module, is at least 6 days.

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-08-KT01	Climate change and its impact on agriculture	20
KM-08-KT02	Seasonal Changes, Precipitation trends and temperature fluctuations	20
KM08-KT03	Selecting climate resilient crop varieties	20
KM08-KT04	Livestock management for climate resilience	20
KM08-KT05	Climate smart technologies and innovations	20

(c) Detailing each topic listed above into topic elements:

KM-08-KT01 Climate change and its impact on agriculture. 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Climate change in Agriculture	25
KT0102	Local climate patterns	25
KT0103	Adapting farming practices to climate change	25
KT0104	Access to climate information and resources	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Explain the concept of climate change and its impact on agriculture.	25
IAC0102	Describe local climate patterns and their influence on agricultural practices.	25
IAC0103	Discuss adapting strategies of farming practices to seasonal changes.	25
IAC0104	Explain accessing climate information and resources to make informed decisions about farming practices.	25

KM-08-KT02 Seasonal Changes, Precipitation trends and temperature fluctuations. 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	The concept of seasons and how they affect agricultural activities	10
KT0202	The difference between climate and weather	10
KT0203	The concept of seasonal crops for different seasons	20
KT0204	Crop varieties selection for the climate conditions	20
KT0205	Impact of precipitation (rainfall/snow/hail) trends on agriculture	20
KT0206	Impact of temperature fluctuations on crop growth	20

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Explain the concept of seasons and how they affect agricultural activities.	20
IAC0202	Describe the difference between climate and weather.	20
IAC0203	Discuss the concept of seasonal crops and how they vary by season.	20
IAC0204	Explain the importance of selecting the right crop varieties based on climate conditions.	20
IAC0205	Describe the impact of precipitation(rainfall/snow/hail) trends on agriculture.	10

IAC0106	Explain the impact of temperature fluctuations on crop growth and development.	10
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KM-08-KT03 Selecting climate resilient crop varieties 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Selection of the right crop varieties for their climate conditions	33
KT0302	Climate change resilient crop traits	34
KT0303	Selection of crops and varieties that are well-suited to local climate	33

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Explain the importance of selecting the right crop varieties for their climate conditions.	33
IAC0302	Describe the traits that make a crop more resilient to climate change.	34
IAC0303	Discuss selection of crops and varieties that are well-suited to local climate conditions.	33

KM-08-KT04 Livestock management for climate resilience 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0401	Impact of climate change on livestock production	25
KT0402	Selection of livestock breeds that are well-suited to local climate conditions	25
KT0403	Housing and shelter for livestock to protect them from extreme weather conditions	25
KT0404	Availability and quality of feed for livestock	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0401	Explain the impact of climate change on livestock production.	25

IAC0402	Describe how to select livestock breeds that are well-suited to local climate conditions.	25
IAC0403	Discuss the importance of providing appropriate housing and shelter for livestock.	25
IAC0404	Explain the impact of climate change on availability and quality of livestock feed.	25

KM-08-KT05 Climate smart technologies and innovations 20%

TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0501	Accessing weather forecasts and climate information services	25
KT0502	The use of drones and remote sensing technologies in agriculture production	25
KT0503	The benefits of using smart irrigation systems	25
KT0504	The use of biogas and renewable energy technologies in agriculture	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0501	Explain various ways and importance of accessing weather forecasts and climate information services for agricultural decision-making.	25
IAC0502	Describe the uses and importance of drones and remote sensing technologies in agriculture.	25
IAC0503	Discuss the benefits of using smart irrigation systems in agriculture.	25
IAC0504	Explain how biogas and renewable energy technologies can benefit agricultural practices.	25

3.8.2 Criteria for accreditation

Add additional line spaces as required. Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, sufficient lighting and ventilation Whiteboards, data projector and screen Computer, internet access, applicable software. Ablutions facilities. Curriculum Aligned Learning Material Quality Management System Learner Management Information System
CONSUMABLES	Seeds, Fertilizers, Pesticides and Herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products Markers, pencil, flipcharts, clipboard, notepad

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must hold a minimum of NQF Level 6 qualification in Agriculture with 3 years working experience in Crop and Livestock production environment.
FACILITATOR/LEARNER RATIO	1:30

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Duly appointed Examination Officer. Appointed and trained Invigilators and Chief Invigilator.
INVIGILATOR/LEARNER RATIO	1:20

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within the premises Compliant to POPI Act Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within premises Compliant to POPI Act Valid Lease Agreement / Title deed

3.8.3 Exemptions

None

3.9. Knowledge Module (KM) - 09: 613101-000-00-KM-09, Legislative Framework, Ethics and Business Principles, NQF Level 4, Credits 10

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-KM-09	Legislative Framework, Ethics and Business Principles	4	10	Contact/blended

3.9.1. Module Details**(a) Purpose of Knowledge Module:**

The focus of learning in this knowledge module is to build an understanding of basic business principles, workplace ethics and codes of conduct. The learning contact time, which reflects the required duration of enrolment for this module, is at least 3 days.

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM09-KT01	Concepts and theories of basic business principles	25
KM09-KT02	Theories, concepts and principles of workplace ethics	25
KM09-KT03	Code of conduct and ethics	25

KM09-KT04	Legislative framework governing Mixed Crop and Livestock farming in South Africa	25
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(c) Detailing each topic listed above into topic elements:

KM-09-KT01 Concepts and theories of basic business principles. 50%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Fundamental business principles	40
KT0102	Business types	30
KT0103	Resource management and costs	30

(d) Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Discuss fundamental business principles for success	40
IAC0102	Discuss and differentiate business types and explain the advantages and disadvantages of each	30
IAC0103	Describe the production resources and their impact on costs of agricultural production	30

KM-09-KT02 Theories, concepts and principles of workplace ethics 40%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Ethical management	25
KT0202	Ethical issues in the workplace	25
KT0203	Ethical decision making	20
KT0204	Ethics and integrity	10
KT0205	Unethical behavior /conduct	20

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Define and discuss ethical management	10
IAC0202	Discuss the principles of ethical management	15
IAC0203	Discuss the main ethical issues to be aware of in the workplace	25
IAC0204	Explain the principles of ethical decision making	20

IAC0205	Explain the relationship between ethics and integrity	10
IAC0206	Discuss the possible consequences of unethical behavior	20

KM-09-KT03 Code of conduct and ethics 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Code of conduct	30
KT0302	Values and ethics	30
KT0303	Ethics and corporate governance	40

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Explain the relationship between code of conduct and Ethics	30
IAC0302	Describe the relationship between values and ethics, and their importance in business	30
IAC0303	Explain and discuss the ethics related requirements in corporate governance applicable to a business with reference to the effect on business values, practices and procedures	40

KM-09-KT04 Legislative framework governing Mixed Crop and Livestock farming		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0401	Conservation of Agricultural Resources Act 43 (CARA) of 1983	15
KT0402	Agricultural Product Standards Act 119 of 1990	15
KT0403	Animal Diseases Act 35 of 1984	15
KT0404	Fertilizers, Farm Feeds, Agricultural Remedies, and Stock Remedies Act 36 of 1947	15
KT0405	National Water Act 36 of 1998	15
KT0406	Spatial Planning and Land Use Management Act 16 of 2013	10
KT0407	Restitution of Land Rights Act 22 of 1994	15

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0401	Explain the purpose of Act 43 (CARA) of 1983 and its role in sustainable agricultural practices.	15
IAC0402	Describe the objectives of the Act 119 of 1990 in ensuring quality standards for agricultural products.	15
IAC0403	Explain the responsibilities of farmers in preventing and managing animal diseases.	15
IAC0404	Explain the registration, labeling, and safe usage requirements for agricultural products	15
IAC0405	Describe the legal framework for water resource management in agriculture	15
IAC0406	Explain how the Land Use Management Act 16 of 2013 governs land use planning and zoning for agricultural purposes.	10
IAC0407	Explain the process of lodging a land claim and the legal requirements	15

3.9.2 Criteria for accreditation

Add additional line spaces as required. Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, sufficient lighting and ventilation Whiteboards, data projector and screen Computer, internet access, applicable software. Ablutions facilities. Curriculum Aligned Learning Material Quality Management System Learner Management Information System
CONSUMABLES	Seeds, Fertilizers, Pesticides and Herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products Markers, pencil, flipcharts, clipboard, notepad

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must hold a minimum of NQF Level 6 qualification in Agriculture with 3 years working experience in Crop and Livestock production environment.
FACILITATOR/LEARNER RATIO	1:30

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Duly appointed Examination Officer. Appointed and trained Invigilators and Chief Invigilator.
INVIGILATOR/LEARNER RATIO	1:20

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within the premises Compliant to POPI Act Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
	CIPC registered entity Valid Tax Compliance pin Infrastructure compliant with OHS Act Display of Labour Laws within premises Compliant to POPI Act Valid Lease Agreement / Title deed

3.9.3 Exemptions s

None

4. Practical Skill Module (PM) Specifications:

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-PM-01	Manage crops and livestock production practices.	5	10	Contact
613101-000-00-PM-02	Practice sustainable land and resources in management	5	10	Contact
613101-000-00-PM-03	Apply Integrated Pest and Disease Management in Agriculture	5	7	Contact
613101-000-00-PM-04	Apply Post-Harvest Management and Livestock Weaning	5	10	Contact
613101-000-00-PM-05:	Provide Livestock Nutrition and Shelter	5	5	Contact
613101-000-00-PM-06	Prepare Soil, plant/sow, fertilize, irrigate, control crop pest and diseases of crops	5	10	Contact
613101-000-00-PM-07	Conduct Market Intelligence and Agribusiness Development	5	5	Contact
613101-000-00-PM-08	Practice Climate-Resilient Farming	5	10	Contact

Detailing Practical Module (PM) contents

4.1. Practical Module (PM) – 01, 613101-000-00-PM-01, Manage crops and livestock production practices, NQF Level 5, Credits 10

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-PM-01	Manage crops and livestock production practices.	5	10	Contact

4.1.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is to provide learners with techniques and skills necessary to operate a crop and livestock farm sustainably. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 12 days.

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-01-PS01	Select crop and planting techniques
PM-01-PS02	Handle, care and feed livestock
PM-01-PS03	Test soil and apply fertilizers

PM-01-PS04	Compost and cover crop
PM-01-PS05	Create crop and livestock production calendar
PM-01-PS06	Record livestock breeding cycles and health management
PM-01-PS07	Document financial transactions and farm expenses.
PM-01-PS08	Mark farm boundary and erect fence

(c) Scope of each Practical Skill Activity:

PM-01-PS01... Select crop and planting techniques	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given the relevant climate and soil information in determining suitable crop for the area, the learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Inspect the local climate and soil conditions
PA0102	Research and experiment different crop varieties
PA0103	Plan and implement crop rotation and diversification
PA0104	Plan and control water supply
PA0105	Maintain ideal soil conditions for optimum crop growth and development
PA0106	Apply Integrated Pest and Disease Management techniques
PA0107	Apply and Incorporate agroforestry strategies.

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Temperature range, rainfall patterns, soil type and drainage
AK0102	Planting techniques including direct seeding, transplanting and intercropping
AK0103	Planting different crops in succession on the same land and / or growing variety of crops together in the same field.
AK0104	Rainwater harvesting, irrigation and mulching
AK0105	Cover cropping, composting, and minimal tillage.
AK0106	Prevention and use of natural predators and biocontrol agents

AK0107	Incorporating trees and shrubs to provide shade, windbreaks and improved soil health.
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Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0101	The local climate and soil conditions are researched and assessed.
IAC0102	Different crop varieties performance is experimented and evaluated
IAC0103	Crop rotation and diversification is planned and implemented
IAC0104	Water supply and irrigation are planned and controlled
IAC0105	Ideal soil condition for optimum crop growth and development is maintained
IAC0106	Integrated Pest and Disease Management (IPDM) techniques are applied
IAC0107	Agroforestry strategies are applied

PM-01-PS02... Handle, care and feed livestock

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given the activities on handling, caring and feeding livestock, the learner must be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Restrain animals safely and gently for various purposes
PA0202	Provide housing, nutrition and health care of livestock
PA0203	Formulate balanced rations based on nutritional requirements.
PA0204	Monitor livestock health
PA0205	Optimize breeding and production
PA0206	Maintain accurate records of animal health, breeding, and production
PA0207	Implement measures to prevent the introduction and spread of diseases within and between herds or flocks.
PA0208	Comply with regulations and standards related to housing, handling, caring and feeding livestock
PA0209	Incorporate sustainable veld and pasture management techniques

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Animal behavior and communication
AK0202	Specific needs of different livestock species
AK0203	Selecting and providing suitable feed such as grains, forage and supplements.
AK0204	Knowledge on administering vaccinations, deworming.
AK0205	Selecting breeding stock, monitoring oestrus cycles, and managing pregnancy and neonatal care.
AK0206	Document vaccinations, treatments, births, mortality, and other relevant information to support effective management and decision-making.
AK0207	Control animal movements, access to facilities, and practicing good hygiene and sanitation.
AK0208	Adhere to relevant regulations and standards for animal welfare, food safety, and environmental protection

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Animals on heat are monitored and detected.
IAC0202	Feed rations are mixed using correct ingredients and quantities.
IAC0203	Animal body conditions, birth weight and weaning are recorded.
IAC0204	Vaccination, births and mortalities are recorded.
IAC0205	Animals are allocated identification numbers, branded for traceability
IAC0206	Animal movements, access to facilities, hygiene and sanitation are applied and controlled.
IAC0207	Relevant regulations and standards for animal housing, welfare, food safety, and environmental protection are adhered to.

PM-01-PS03: Test soil and apply fertilizers

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given information on how to collect soil samples for different types of soil the learner must be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
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PA0301	Collect soil samples from various locations within a farm or garden.
PA0302	Apply soil management practices to minimize negative impacts
PA0303	Monitor and evaluate soil health and fertility.
PA0304	Apply essential nutrients required for plant growth and development (hydroponic)
PA0305	Apply fertilizers (organic and inorganic) to crops (soil)
PA0306	Comply to regulations and standards related to fertilizer use.
PA0307	Calibrate fertilizer and compost application equipment and implements

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0301	Obtaining a representative sample for testing.
AK0302	Practice on nutrient runoff, soil erosion and soil compaction
AK0303	Soil management practices.
AK0304	Soil testing requirements for agricultural certification.
AK0305	Apply relevant fertilizers to correct the soil in terms of shortages in nitrogen, phosphorus, potassium and micronutrients.
AK0306	Facilitate soil testing
AK0307	The factors that influence nutrient availability and uptake, such as soil moisture and temperature.
AK0308	Correct use of equipment and implements

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0301	Soil samples are collected from various locations within a farm or garden.
IAC0302	Soil management practices are applied to minimize negative impacts
IAC0303	Soil health and fertility are monitored and evaluated.
IAC0304	Essential nutrients required for plant growth and development (hydroponic) are applied
IAC0305	Fertilizers (organic and inorganic) to crops (soil) are applied
IAC0306	Regulations and standards related to fertilizer use are complied with.
IAC0307	Fertilizer and compost application equipment and implements are calibrated

PM-01-PS04... Composting and cover cropping	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given the principles of composting, including the role of microorganisms in decomposition, the carbon-to-nitrogen ratio, and the importance of aeration and moisture control, the learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0401	Compost nutrient-rich plant material
PA0402	Apply compost to crops
PA0403	Select and manage cover crops based on specific soil and climate conditions
PA0404	Establish a successful cover crop stand
PA0405	Terminate cover crop

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0401	Compostable material and how to balance their proportions.
AK0402	Various uses of compost including soil amendment, mulch, or potting mix
AK0403	Different cover crop species and their benefits, such as nitrogen fixation, soil erosion prevention, and weed suppression
AK0404	Techniques for cover crops
AK0405	Different methods of cover crop termination, such as mowing, rolling, or herbicide application.

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0401	Nutrient-rich plant material is composted
IAC0402	Compost is applied to crops
IAC0403	Cover crops are selected and managed based on specific soil and climate conditions
IAC0404	Successful cover crop stand is established
IAC0405	Cover crop is terminated

PM-01-PS05... Create a crop and livestock production calendar

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given relevant information in the crop and livestock calendar the learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0501	Optimize planting to harvesting times for different crops
PA0502	Plant and plan multiple planting of the same crop throughout.
PA0503	Incorporate pest resistant crops, beneficial insects and other Integrated Pest and Disease Management strategies
PA0504	Keep accurate records of planting and harvesting dates, varieties and yields
PA0505	Optimize breeding season

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0501	Climate and local growing conditions.
AK0502	Harvest period extension
AK0503	Principles of IPM.
AK0504	Planting and harvesting tracking

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0501	Crop planting to harvesting calendar is drafted in line with the seasons of the year.
IAC0502	Livestock production calendar is drafted in line with the seasons of the year.
IAC0503	Pest resistant crops, beneficial insects and other Integrated Pest and Diseases Management strategies are incorporated in the production plan
IAC0504	Crop production practices varieties and yields are accurately recorded
IAC0505	Livestock breeding season is planned

PM-01-PS06 Breed livestock

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given a scenario with information on breeding cycles, learning about reproductive cycle of different livestock including timing of estruses, gestation and parturition and how to recognize signs of heat or pregnancy, the learner must be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0601	Develop a breeding plan that aligns with goals and objectives of the operation.
PA0602	Maintain accurate records of breeding dates, mating pairs, pregnancy checks and birth outcomes for individual animals.
PA0603	Select breeding stock
PA0604	Vaccinate and deworm livestock
PA0605	Provide appropriate pre-and post-natal care for breeding animals.
PA0606	Cull non-performing animals

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0601	Breeding record keeping
AK0602	Develop breeding goals, select suitable mates, and track genetic traits over multiple generations.
AK0603	Advanced reproductive technologies

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0601	Breeding plans that aligns with production goals and objectives is developed.
IAC0602	Accurate records of breeding dates, mating pairs, pregnancy checks and birth outcomes for individual animals are maintained.
IAC0603	Breeding stock is selected
IAC0604	Livestock is vaccinated and dewormed
IAC0605	Appropriate pre-and post-natal care for breeding animals is provided.
IAC0606	Non-performing animals are culled

PM-01-PS07 Document financial transactions and farm expenses.

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given the scope of documentation on the farm financial transactions and expenses the learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0701	Record financial transactions
PA0702	Control cashflow
PA0703	Create a budget for different farm operations
PA0704	Track Expenses
PA0705	Track Income
PA0706	Comply with Tax Requirements
PA0707	Maintain Creditors and debtors
PA0708	Manage Profit and loss

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0701	Cash flow principles.
AK0702	Budgeting skills
AK0703	Farm expenses, including variable costs such as seed, fertilizer, and feed, as well as fixed costs such as land rent, utilities, and equipment maintenance.
AK0704	Farm income from various sources, such as crop sales, livestock sales, government subsidies, and agritourism activities.
AK0705	Tax regulations and requirements for farm businesses, such as income tax, property tax, sales tax, tax evasion or fraudulent accounting
AK0706	Financial reporting and record-keeping for income and expenses using accounting software or manual record keeping.

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0701	Farm production budget for the farm is drawn up.
IAC0702	Income and expenses are recorded
IAC0703	Accounting software and or manual system for record keeping is utilized.

IAC0704	Profit and loss of the farm are assessed
IAC0705	Income tracking is evaluated
IAC0706	Tax Compliance is managed
IAC0707	Creditors and debtors are evaluated
IAC0708	Profit and loss are determined

PM-01-PS08 Mark farm boundary and erect fence	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given relevant material to install boundary marking and fencing, the learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0801	Select different types of fencing materials
PA0802	Design and plan fencing layouts, including considerations such as terrain, soil type, and livestock.
PA0803	Install fences, including techniques for setting posts, stretching wire, and securing fencing materials, and ensuring that installations are durable and secure.
PA0804	Maintain fences, including tasks such as repairing damaged sections, replacing worn materials, and keeping vegetation clear of fencing lines.

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0801	Boundary marking requirements
AK0802	Design and planning of fencing layouts.
AK0803	Fencing installation techniques.
AK0804	Fencing maintenance
AK0805	Compliance in erecting fencing.

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0801	Types of fencing material are selected
IAC0802	Fence is erected

IAC0803	Fence, damaged sections, worn-out materials, and vegetation clearing off fencing lines are maintained
IAC0804	Regulations related to fencing are explored

4.1.2. Criteria for accreditation

Add additional line spaces as required. Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, ventilated and luminated. Whiteboard, Projector and screen. Soils preparation, planting, fertilizer spreader, mechanical weeder, chemical spraying tools and equipment. Kraals, Pens, Animal handling facilities, Animal processing equipment (dehorning, branding, castration, tail-docking, hoof-trimming, artificial insemination, shearing, vaccination equipment and tools). Animal species specimens. Ablutions facility. Curriculum aligned Learning Material. Quality Management System. Learner Information Management System.
CONSUMABLES	Seeds, Fertilizers, Pesticides and herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must have a minimum of NQF Level 6 qualification in Agriculture with a minimum of 3 years operational experience as a Production Supervisor in Crop and Livestock Farm.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin

	Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed
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ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

Human Resource Requirements:

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Appointed and qualified Examination Officer. Appointed and trained Invigilators and Chief Invigilators.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

4.1.3 Exemptions

None

4.2. Practical Module (PM) – 02: 613101-000-00-PM-02, Practice sustainable land and resources in management, NQF Level 5, Credits 10

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-PM-02	Practice sustainable land and resources in management	5	10	Contact

4.2.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is on providing the learner an opportunity to acquire techniques and skills necessary for sustainable management of land and natural resources. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 12 days

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-02-PS01	Evaluate land use

PM-02-PS02	Implement Soil Conservation measures
PM-02-PS03	Plan and control water resources
PM-02-PS04	Design and maintain farm infrastructure

(c) Scope of each Practical Skill Activity:

PM-02-PS01 Evaluate land use	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given land characteristics such as soil type, slope, and drainage to determine suitable uses for different areas of the farm the learner will be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Assess land suitability for crops and livestock production.
PA0102	Evaluate crop rotation to maintain soil fertility and reduce pests and diseases.
PA0103	Assess livestock grazing patterns.
PA0104	Examine integration of crops and livestock

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Soil types, topography, climate and water availability
AK0102	Crop rotation principles
AK0103	Livestock grazing principles
AK0104	The Integration of crops and livestock in a farm.

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0101	Suitable land for crops and grazing of livestock is assessed
IAC0102	Suitable land for planting crops is identified
IAC0103	Suitable areas for dams are identified
IAC0104	Integration of crops and livestock is examined

PM-02-PS02 Implement soil Conservation measures
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE
Given a scenario with information on soil conservation, the learner must be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Identify soil erosion threats
PA0202	Practice soil conservation including contours, terracing, strip cropping and rotational grazing
PA0203	Adapt tillage practices to soil conservation measures.

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Rotational grazing
AK0202	Identify Soil erosion threats
AK0203	How to adopt conservation tillage practice

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Soil is assessed to identify erosion threats
IAC0202	Soil conservation measures are practiced including contours, terracing, strip cropping and rotational grazing
IAC0203	Tillage practices are adapted to soil conservation measures.

PM-02-PS03 Plan and control water resources

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given information on equipment to plan and control water usage, irrigation and watering systems the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0301	Monitor soil moisture meters, use water flow meters, and keep track of water usage for irrigation, livestock watering
PA0302	Attend irrigation, mulching, and rainwater harvesting.
PA0303	Attend livestock watering systems

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
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AK0301	Apply techniques to measure and monitor water usage on the farm
AK0302	Various water conservation practices
AK0303	Plan, design and control water systems

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0301	Water usage on a farm is measured and monitored.
IAC0302	Irrigation, mulching and rainwater are applied and harvested.
IAC0303	Livestock watering systems are monitored.
PM-02-PS04 Monitoring and maintaining farm infrastructure	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given a scenario with information on farm equipment, the learner will be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0401	Assess and maintain farm equipment and infrastructure

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0401	Farm equipment for farm operations
AK0402	Farm maintenance on the farm

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0401	Farm equipment and infrastructure are assessed and maintained.

4.2.2. Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, ventilated and luminated. Whiteboard, Projector and screen. Soils preparation, planting, fertilizer spreader, mechanical weeder, chemical spraying tools and equipment. Animal handling facilities, Animal processing equipment (dehorning, branding, castration, tail-docking, hoof-trimming, artificial insemination, shearing, vaccination equipment and tools). Animal species specimens Ablutions facility. Curriculum aligned Learning Material Quality Management System Learner Information Management System
CONSUMABLES	Seeds, Fertilizers, Pesticides and herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must have a minimum of NQF Level 6 qualification in Agriculture with a minimum of 3 years operational experience as a Production Supervisor in Crop and Livestock Farm.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act

	CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed
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ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

Human Resource Requirements:

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Appointed and qualified Examination Officer. Appointed and trained Invigilators and Chief Invigilators.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

4.2.3 Exemptions

None

4.3. Practical Module (PM) – 03: 613101-000-00-PM-03, Apply Integrated Pest and Disease Management in Agriculture, NQF 5, Credits 7

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-PM-03	Apply Integrated Pest and Disease Management in Agriculture	5	7	Contact

4.3.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is proving the learner with an opportunity to acquire techniques and skills necessary to control pests and diseases in agricultural systems in a sustainable manner. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 9 days.

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-03-PS01	Analyze pests and diseases
PM-03-PS02	Conduct beneficial insect release and trapping
PM-03-PS03	Apply livestock health management
PM-03-PS04	Select agrochemicals for crop diseases
PM-03-PS05	Apply pesticides and herbicides

(c) Scope of each Practical Skill Activity:

PM-03-PS01 Analyze pests and diseases	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given information on pests and diseases affecting crops the learner will be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Identify common pests and diseases affecting crops and livestock

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Knowledge of common pests and diseases in crops and livestock.

AK0102	Live cycle of pests and effective control strategies.
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Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0101	Pests and diseases affecting crops and livestock are scouted.

PM-03-PS02 Conduct beneficial insect release and trapping

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given information on case study on how beneficial release and trapping is conducted the learner will be able to

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Release beneficial insects
PA0202	Set up pest traps
PA0203	Implement generally accepted practices to disrupt pest life cycles

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Pest control
AK0202	Crop rotation, intercropping
AK0203	Monitoring and reducing pest population.

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Correct procedure for selection, handling, and releasing beneficial insects to control pest population is applied.
IAC0202	Insect traps to control pest populations are monitored and maintained.
IAC0203	Integrated pest and diseases management (IPM) techniques to disrupt pest life cycles are applied.

PM-03-PS03 Apply livestock health management

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given information on managing the health and well-being of livestock, prevent disease and injury, and promote overall productivity and welfare within livestock operations. The learners will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0301	Conduct regular health checks for livestock
PA0302	Practice proper handling and restraint techniques for different livestock species.
PA0303	Selection agrochemical for Livestock Disease Management

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0301	Livestock body condition and symptoms of illness.
AK0302	Common livestock diseases and their prevention and treatment methods.
AK0303	Crop diseases and suitable agrochemicals (e.g., fungicides, bactericides) for treatment.
AK0304,	Integrated pest management (IPM) and pesticide resistance.
AK0305	Agrochemicals application processes.

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0301	Regular health checks for livestock are conducted
IAC0302	Proper handling and restraint techniques for different livestock species are practiced.
IAC0303	Agrochemical for livestock disease management are selected

PM-03-PS04: Select agrochemicals for crop diseases

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given the information to control pest and weed pressures in livestock operations while minimizing risks to animal health, environmental quality, and human safety the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
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PA0401	Select pesticides and herbicides
PA0402	Apply health and safety protocols in pesticides and herbicides application

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0401	Knowledge of different types of agrochemicals and their application.
AK0402	Safety guidelines and regulations for the use of agrochemicals

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0401	Different pesticides and herbicides based on their purpose, and modes of action are classified and selected.
IAC0402	Health and safety procedures when handling, mixing, and applying pesticides and herbicides are followed and complied with.

PM-03-PS05: Apply pesticide and herbicides.

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given a scenario with information on agrochemicals for crops and livestock, minimizing risks to crops and livestock health, the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0501	Identify symptoms of common livestock diseases, infections and health issues.
PA0502	Determine the correct medication for specific conditions (e.g., antibiotics, dewormers).
PA0503	Record keeping on agrochemical application, product used, rates, dates and targeted areas.
PA0504	Comply with regulatory requirements in application of agrochemicals in a safe manner.
PA0505	Identify symptoms / signs of crop diseases in

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0501	Type of livestock illness
AK0502	Types of medicine to apply

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0501	Symptoms of common livestock diseases, infections, or health issue are identified.
IAC0502	Different medicines based on diagnosed conditions are selected.
IAC0503	Records on agrochemical application, product used, rates, dates and targeted areas are documented.
IAC0504	Regulatory requirements in application of agrochemicals in a safe manner are applied
IAC0505	Symptoms / signs of crop diseases are identified.

4.3.2. Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, ventilated and luminated. Whiteboard, Projector and screen. Soils preparation, planting, fertilizer spreader, mechanical weeder, chemical spraying tools and equipment. Animal handling facilities, Animal processing equipment (dehorning, branding, castration, tail-docking, hoof-trimming, artificial insemination, shearing, vaccination equipment and tools). Animal species specimens Ablutions facility. Curriculum aligned Learning Material Quality Management System Learner Information Management System
CONSUMABLES	Seeds, Fertilizers, Pesticides and herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must have a minimum of NQF Level 6 qualification in Agriculture with a minimum of 3 years operational experience as a Production Supervisor in Crop and Livestock Farm.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

Human Resource Requirements:

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Appointed and qualified Examination Officer. Appointed and trained Invigilators and Chief Invigilators.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

4.3.3 Exemptions

None

4.4. Practical Module (PM) – 04: 613101-000-00-PM-04, Apply Post-Harvest Management and Livestock Weaning, NQF Level 5, Credits 10.

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-PM-04	Apply Post-Harvest Management and Livestock Weaning	5	10	Contact

4.4.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is to provide learners with an opportunity to acquire the techniques and skills necessary to conduct post-harvest activities and market readiness practices in agricultural systems. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 12 days.

(b) List of Practical Skills:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-04-PS01	Harvest matured crops
PM-04-PS02	Implement weaning protocols and management practices for livestock
PM-04-PS03	Participate in post-harvesting process
PM-04-PS04	Attend to crop processing

(c) Scope of each Practical Skill Activity:

PM-04-PS01 Harvest matured crops	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given samples and demonstrations on crops that should be harvested, the learner will be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Determine timing for harvesting different crops based on maturity and market demand.
PA0102	Harvest crops such as picking, cutting, or digging crops.
PA0103	Apply post-harvest handling techniques to minimize damage and maintain quality.

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Methods of harvesting different crops

AK0102	Post harvest handling techniques
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Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0101	Timing for harvesting different crops based on maturity and market demand are determined.
IAC0102	Crops are harvested such as picking, cutting, or digging crops.
IAC0103	Post-harvest handling techniques to minimize damage and maintain quality are applied.

PM-04-PS02 Implement weaning protocols and management practices for livestock

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given a case study with information about the weaning and skills essential for safely separating young animals from their mothers to transition them to independent feeding, the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Wean livestock based on age and health.
PA0202	Apply weaning procedures for livestock.
PA0203	Monitor weaned animals.

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Identifying the optimal timing for weaning
AK0202	Practicing safe and humane weaning techniques.
AK0203	Monitoring the weaned animals and providing necessary care and nutrition.

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Livestock is weaned based on the optimal timing for age and health.
IAC0202	Safe and humane weaning techniques are practiced.
IAC0203	Weaned animals are weighed.
IAC0204	Weaned animals are recorded

PM-04-PS03 Apply post-harvesting process	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given information on essential skills for preserving the quality, safety and marketability of harvested agricultural products, the learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0301	Grade and sort crops and livestock
PA0302	Select suitable packaging and methods suitable for different crops.
PA0303	Apply storage methods to maintain product freshness and extend shelf life.

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0301	Principles of grading and sorting.
AK0302	Types of packaging materials
AK0303	Types of storage

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0301	Produce/products is graded and sorted.
IAC0302	Crops are packaged using suitable packaging material
IAC0303	Harvested products are correctly loaded and transported.
IAC0304	Post harvest management is recorded

PM-04-PS04 Attend to Crop Processing	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given information on converting harvested crops into value-added products for consumption, storage, or commercialization, the learner will be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0401	Wash, mill or dry crops to prepare them for market.
PA0402	Use different processing techniques

PA0403	Apply food safety protocols
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Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0401	Crop processing methods

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0401	Crops are washed, milled or dried to prepare for markets
IAC0402	Different processing techniques are used.
IAC0403	Food safety protocols are implemented

4.4.2. Criteria for accreditation

Add additional line spaces as required. Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, ventilated and luminated. Whiteboard, Projector and screen. Soils preparation, planting, fertilizer spreader, mechanical weeder, chemical spraying tools and equipment. Animal handling facilities, Animal processing equipment (dehorning, branding, castration, tail-docking, hoof-trimming, artificial insemination, shearing, vaccination equipment and tools). Animal species specimens Ablutions facility. Curriculum aligned Learning Material Quality Management System Learner Information Management System
CONSUMABLES	Seeds, Fertilizers, Pesticides and herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must have a minimum of NQF Level 6 qualification in Agriculture with a minimum of 3 years operational experience as a Production Supervisor in Crop and Livestock Farm.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

Human Resource Requirements:

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Appointed and qualified Examination Officer. Appointed and trained Invigilators and Chief Invigilators.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

4.4.3 Exemptions

None

4.5. Practical Module (PM) – 05: 613101-000-00-PM-05, Provide Livestock Nutrition and Shelter, NQF Level 5, Credits 5

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-PM-05	Provide Livestock Nutrition and Shelter	5	5	Contact

4.5.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of learning in this module is on providing the learner an opportunity to acquire the techniques and skills necessary to oversee the nutrition of livestock. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 6 days.

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-05-PS01	Oversee feed preparation for livestock
PM-05-PS02	Erect shelter and handling facilities for livestock

(c) Scope of each Practical Skill Activity:

PM-05-PS01 Oversee Feed Preparation for livestock	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given case study with information on managing the formulation, preparation, and delivery of balanced diets to meet the nutritional needs of livestock the learner will be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Formulate feed ratios for different livestock species and stages of life.
PA0102	Administer feed quantities and observe animal feeding behavior
PA0103	Determine nutritional requirements of different livestock

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Feed Preparation and Nutrition

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0101	Feed ratios are formulated for different livestock species and stages of life.
IAC0102	Feed quantities are administered, and animal feeding behavior is observed
IAC0103	Nutritional requirements of different livestock are determined

PM-05-PS02 Erect shelter and handling facilities for livestock

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given information on designing, constructing, and managing facilities that provide comfortable and safe environments for animals, the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Construct animal shelters and handling facilities.
PA0202	Provide a comfortable and clean-living environment for the animals.
PA0203	Maintain comfortable and stress-free environment for livestock.

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Animal shelters and handling facilities.
AK0202	Clean-living environments for the animals.

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0101	Animal shelters and handling facilities are constructed and repaired.
IAC0102	Clean-living environments for the animals are provided
IAC0103	Stress-free environment for livestock is maintained

4.5.2. Criteria for accreditation

Add additional line spaces as required. Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)

EQUIPMENT & TOOLS	Classroom with chairs, tables, ventilated and luminated. Whiteboard, Projector and screen. Soils preparation, planting, fertilizer spreader, mechanical weeder, chemical spraying tools and equipment. Animal handling facilities, Animal processing equipment (dehorning, branding, castration, tail-docking, hoof-trimming, artificial insemination, shearing, vaccination equipment and tools). Animal species specimens Ablutions facility. Curriculum aligned Learning Material Quality Management System Learner Information Management System
CONSUMABLES	Seeds, Fertilizers, Pesticides and herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must have a minimum of NQF Level 6 qualification in Agriculture with a minimum of 3 years operational experience as a Production Supervisor in Crop and Livestock Farm.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

ASSESSMENT CENTRE

QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed
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Human Resource Requirements:

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Appointed and qualified Examination Officer. Appointed and trained Invigilators and Chief Invigilators.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

4.5.3 Exemptions

None

4.6. Practical Module (PM) – 06: 613101-000-00-PM-06, Soil Preparation, Sowing / planting, Fertilize, irrigate, manage health of Crops, NQF Level 5, Credits 5

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-PM-06	Soil Preparation, Sowing / planting, Fertilize, irrigate, manage health of Crops	5	5	Contact

4.6.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is on providing the learner an opportunity to manage all stages of crop production, from soil preparation and sowing to ongoing crop care. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 6 days.

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-06-PS01	Prepare soil for crop planting
PM-06-PS02	Apply sowing and planting techniques
PM-06-PS03	Apply fertilizer techniques
PM-06-PS04	Apply irrigation management for crop health
PM-06-PS05	Monitor and manage crop health

(c) Scope of each Practical Skill Activity:

PM-06-PS01 Prepare soil for crop planting	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given a portion of land area the learner will be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Assess soil texture and structure
PA0102	Collect soil samples for soil nutrients analysis and interpret results
PA0103	Apply techniques for soil tillage and leveling
PA0103	Incorporate organic matter and amendments into the soil
PA0104	Apply soil compaction prevention methods

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Soil Composition and Structure
AK0102	Soil Testing and Interpretation
AK0103	Tillage Techniques
AK0104	Soil Amendments and Fertilization
AK0105	Managing Soil Compaction
AK0106	Erosion Control

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0101	Soil test is conducted to determine texture class
IAC0102	Soil structure is determined in terms of suitability for different crop types and growth conditions.
IAC0103	Test results to determine nutrient deficiencies or imbalances are interpreted.
IAC0104	Techniques for soil tillage and leveling are applied
IAC0105	Organic materials are distributed evenly across the soil surface.
IAC0106	Signs of soil compaction through physical tests are tested

PM-06-PS02 Apply sowing and planting techniques

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given a portion of land area the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Select the appropriate seed variety
PA0202	Prepare seedbeds and planting holes
PA0203	Sow seeds (broadcast, drill, transplant)
PA0204	Determine planting depth and spacing
PA0205	Plant in rows vs. intercropping

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Understand crop characteristics
AK0202	Soil preparation for seedbed creation
AK0203	Seed Sowing Methods
AK0204	Optimal Planting Depth and Spacing

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Seed varieties are selected based on climate, soil type, and intended crop use
IAC0202	Seedbed suitable for germination and root development is prepared.
IAC0203	Soil fineness and fertility are adjusted by incorporating organic matter or soil amendments
IAC0204	Planting holes of the correct depth and spacing are created according to crop requirements.
IAC0205	Sowing method is selected and applied based on crop type, field conditions, and expected yield.
IAC0206	Planting depth is measured and adjusted according to the seed size and crop requirements
IAC0207	Crops are arranged in rows with spacing for mechanized or manual management.

PM-06-PS03 Apply Fertilizer techniques

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given a portion of land area the learner will be able to::

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0301	Identify types of fertilizers: organic, inorganic, and slow-release
PA0302	Apply methods for fertilizer application: broadcasting, fertigation, and foliar feeding
PA0303	Identify nutrient deficiencies and requirements
PA0304	Prevent nutrient leaching and runoff
PA0305	Integrate crop rotation to enhance soil fertility

PA0306	Incorporate biological soil enhancers and compost
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Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0301	Strategies for Preventing Nutrient Leaching and Runoff
AK0302	Integrating Crop Rotation to Enhance Soil Fertility
AK0303	Monitoring and Adjusting Nutrient Levels During Crop Growth
AK0304	Incorporating Biological Soil Enhancers and Compost

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0301	Different types of fertilizers are selected
IAC0302	Fertilizer application methods is selected based on soil condition, crop type, and growth stage.
IAC0303	Fertilizers are applied using broadcasting, fertigation, and foliar feeding techniques
IAC0304	Soil and plant tissue samples are assessed to determine nutrient levels and deficiencies
IAC0305	Soil conservation techniques are applied to minimize nutrient leaching and runoff
IAC0306	Cover cropping and mulching are practiced and applied to retain soil nutrients.
IAC0307	Crop rotation system that optimizes soil nutrient balance and minimizes pest buildup is applied.
IAC0308	Compost is prepared using organic materials and monitor decomposition stages.

PM-06-PS04 Apply irrigation management for crop health

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given a portion of land area the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0401	Select appropriate Irrigation method (drip, sprinkler, flood, furrow)

PA0402	Install and maintain irrigation equipment
PA0403	Monitor soil moisture levels for irrigation decisions
PA0404	Implement rainwater harvesting systems
PA0405	Use mulching and other soil moisture retention practices
PA0406	Manage water for efficient watering to minimize wastage

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0401	Irrigation methods
AK0402	Components of irrigation systems
AK0403	Soil moisture measurement techniques
AK0404	Rainwater collection methods
AK0405	Types of mulch
AK0406	Water-saving irrigation techniques

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0401	Appropriate irrigation method is selected based on crop type, soil characteristics, and water availability.
IAC0402	Irrigation equipment, including pipes, pumps, filters, and emitters are properly installed
IAC0403	Soil moisture is monitored, recorded and interpreted to make informed irrigation decisions.
IAC0404	Plant water stress indicators are monitored to determine the need for irrigation.
IAC0405	Rainwater collection systems are installed
IAC0406	Mulching is applied to retain soil moisture, reduce evaporation, and suppress weeds.
IAC0407	Water usage is assessed by monitoring irrigation systems and proper application rates.
IAC0408	Irrigation run-off is monitored and corrective measures to minimize water loss are applied.

PM-06-PS05 Monitor and managing crop health

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given a portion of land area where there are crops the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0501	Identify early signs of crop stress (nutrient deficiencies, pests, diseases)
PA0502	Use biological and chemical controls for pest and disease management
PA0503	Implement disease prevention practices (crop rotation, resistant varieties)
PA0504	Identify common weed species and their impact on crops
PA0505	Select chemical weed control: herbicide application
PA0506	Use of cover crops and mulching to prevent weed growth

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0501	Symptoms of nutrient deficiencies
AK0502	Pest damage
AK0503	Disease symptoms
AK0504	Biological control agents:
AK0505	Integrated pest management (IPM)
AK0506	Chemical Weed Control (Herbicide Application)

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0501	Crops are examined for visual symptoms of nutrient deficiencies, pests, and diseases infestation and infection.
IAC0502	Chemical control is applied according to product guidelines and mode of action.
IAC0503	Pest and disease levels post-application are monitored to assess effectiveness.
IAC0504	Crop rotation schedule is planned to prevent the buildup of soilborne and crop specific diseases, pests and weeds.
IAC0505	Disease and pest-resistant crop varieties are selected based on local pest and disease pressure.
IAC0506	Common weed species are identified in the field using visual characteristics

IAC0507	Herbicide type are selected for specific weed species and crop.
IAC0508	Herbicides are applied using correct techniques
IAC0509	Suitable cover crops that can suppress weeds while benefiting soil health are selected.
IAC0510	Mulch is applied around crops to reduce weed germination and maintain soil moisture

4.6.2. Criteria for accreditation

Add additional line spaces as required. Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, ventilated and luminated. Whiteboard, Projector and screen. Soils preparation, planting, fertilizer spreader, mechanical weeder, chemical spraying tools and equipment. Animal handling facilities, Animal processing equipment (dehorning, branding, castration, tail-docking, hoof-trimming, artificial insemination, shearing, vaccination equipment and tools). Animal species specimens Ablutions facility. Curriculum aligned Learning Material Quality Management System Learner Information Management System
CONSUMABLES	Seeds, Fertilizers, Pesticides and herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must have a minimum of NQF Level 6 qualification in Agriculture with a minimum of 3 years operational experience as a Production Supervisor in Crop and Livestock Farm.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

Legal Requirements:

Curriculum: Mixed and Livestock Farmer, NQF Level 5, Credits 197

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

Human Resource Requirements:

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Appointed and qualified Examination Officer. Appointed and trained Invigilators and Chief Invigilators.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

4.6.3 Exemptions

None

4.7. Practical Module (PM) – 07: 613101-000-00-PM-07, Conduct Market Intelligence and Agribusiness Development, NQF Level 5, Credits 5

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-PM-07	Conduct market intelligence and agribusiness development	5	5	Contact

4.7.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is on providing the learner an opportunity to acquire the techniques and skills necessary to market produced products in a local market and be able to interact with stakeholders along the agribusiness value chain. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 6 days.

Curriculum: Mixed and Livestock Farmer, NQF Level 5, Credits 197

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-07-PS01	Survey local market
PM-07-PS02	Profile stakeholders

(c) Scope of each Practical Skill Activity:

PM-07-PS01 Survey local market	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given a case study and information on local market, collecting, analyzing, and interpreting data to assess market conditions, consumer preferences, and competitive landscapes within a specific geographical area the learner will be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Analyze local produce / product consumer preferences
PA0102	Assess competitors and identify opportunities

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Local markets
AK0102	Products produced in the area
AK0103	Different pricing for different markets

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0101	Market produce / products trends that influence market demand are identified.
IAC0102	Market positioning, pricing strategies, and product offerings, identifying potential gaps and opportunities for business growth are identified.

PM-07-PS02 Profile stakeholders
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE
Given scenario and information on stakeholder identification and profiling, identifying, analysing, the needs, interests, and influence of individuals, groups, or organizations that are relevant to a particular project, initiative, or organization, the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Analyse stakeholders in the agricultural value chain including financiers and markets
PA0202	Engage key stakeholders, markets, suppliers, customers, industry professionals

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Stakeholder profiling

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Stakeholders are analysed and profiled
IAC0202	Stakeholders in the agricultural value chain, including financiers and markets are identified and engaged
IAC0203	Stakeholder networking and rapport that supports business and operational success is established

4.7.2. Criteria for accreditation

Add additional line spaces as required. Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, ventilated and luminated. Whiteboard, Projector and screen. Soils preparation, planting, fertilizer spreader, mechanical weeder, chemical spraying tools and equipment. Animal handling facilities, Animal processing equipment (dehorning, branding, castration, tail-docking, hoof-trimming, artificial insemination, shearing, vaccination equipment and tools). Animal species specimens Ablutions facility. Curriculum aligned Learning Material Quality Management System Learner Information Management System

CONSUMABLES	Seeds, Fertilizers, Pesticides and herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products
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Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must have a minimum of NQF Level 6 qualification in Agriculture with a minimum of 3 years operational experience as a Production Supervisor in Crop and Livestock Farm.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP) & ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

Human Resource Requirements:

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Appointed and qualified Examination Officer. Appointed and trained Invigilators and Chief Invigilators.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

4.7.3 Exemptions

None

4.8. Practical Module (PM) – 08: 613101-000-00-PM-08, Practice Climate-Resilient Farming, NQF Level 5, Credits 10

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-PM-08	Practice Climate-Resilient Farming	5	10	Contact

4.8.1. Module Details

(a) Purpose of the Practical Skills Module:

The purpose of this topic is to identify and implement strategies that enable farmers to maintain productivity and food security in the face of increasingly variable weather patterns, rising temperatures, and other climate-related challenges. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 12 days.

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-08-PS01	Harvest and irrigate with rainwater
PM-08-PS02	Implement crop rotation and diversification
PM-08-PS03	Implement livestock diversification
PM-08-PS04	Monitor weather forecasting and cover crops
PM-08-PS05	Implement Soil erosion prevention techniques and Soil Resilience
PM-08-PS06	Apply climate-resilient infrastructure solutions that enhance resilience to climate change
PM-08-PS07	Implement rotational grazing plan to optimize pasture use, prevent overgrazing, and maintain soil and livestock health

(c) Scope of each Practical Skill Activity:

PM-07-PS01 Harvest and Irrigate with rainwater	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given information on rainwater harvesting and irrigation involves collecting, storing, and using rainwater to support irrigation needs while minimizing water wastage and maximizing crop productivity, the learner will be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Set up rainwater harvesting system
PA0102	Install irrigation systems

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Rainwater harvesting system application
AK0102	Drip and micro sprinkler system
AK0103	Managing soil moisture

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0101	Rainwater harvesting system for water collection and storage is set up.
IAC0102	Irrigation system suited for the environment is installed.

PM-07-PS02 Implement crop rotation and diversification

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given a case study on crop rotation and diversification involving planning and implementing crop rotation schemes and diversifying cropping systems to optimize soil health, pest and disease management, and crop productivity, the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Cultivate crops
PA0202	Apply crop diversification and rotation plan

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Crop rotation and diversification

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Different crops are cultivated in a diversified and rotational sequence to optimize soil health, crop health and nutrient availability.

PM-07-PS03 Diversify livestock enterprises

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given information on expanding and managing a diverse range of livestock enterprises beyond traditional production systems the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0301	Select livestock species for various enterprises
PA0302	Apply animal handling and husbandry
PA0303	Monitor livestock breeding and reproduction

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0301	Potential benefits of different livestock
AK0302	Safe techniques for handling different livestock
AK0303	Techniques to Oestrus detection and artificial insemination
AK0304	Pregnancy diagnosis and breeding management

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0301	Different livestock species are selected for different enterprises
IAC0302	Safe and effective animal handling techniques and husbandry practices for different livestock are applied.
IAC0303	Breeding and reproductive practices are monitored and applied

PM-07-PS04 Monitor weather forecasting and cover crops

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given the information on weather forecasting and cover crops involving utilizing weather information to inform cover crop selection and integration into farming systems, the learner must be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0401	Plan planting dates
PA0402	Utilize cover crops
PA0403	Record weather related information

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0401	Crop growth and yield principles

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0401	Planting dates are prepared in response to weather forecasts and environmental factors.

IAC0402	Cover crops are used following recommended planting methods and timeline.
IAC0403	Weather data is analysed to identify trends and their impact on crop growth and development.

PM-07-PS05 Implement soil erosion prevention measures and soil resilience

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given a scenario and information on soil erosion prevention and soil resilience for implementing strategies to mitigate soil erosion and enhance the ability of soils to resist erosion and maintain productivity the learner must be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0501	Apply contour ploughing to prevent soil erosion
PA0502	Check dams to prevent soil erosion

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0501	Stakeholder profiling

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0501	Contour ploughing is used based on slope and soil conditions.
IAC0502	Cover crops are established to protect soil from erosion and soil structure improvement.
IAC0503	Existing dams are inspected for sound structural integrity and effectiveness in controlling soil erosion.

PM-07-PS06 Apply climate-resilient infrastructure solutions that enhance resilience to climate change

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given a scenario and information designing, constructing and managing infrastructure systems that can withstand and adapt to the impacts of climate change, the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0601	Setup tunnels and shade net for crop production

PA0602	Set up green roofs, permeable pavements and rain gardens
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Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0601	Setting up tunnels and netting
AK0602	Green Roof, permeable pavements, rain gardens

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0601	Tunnels and shade net structures are erected on selected areas based on environmental conditions and crop requirements.
IAC0602	Green roof, proper drainage and substrate layering are installed for production of selected crops.

PM-07-PS07 Implement rotational grazing plan to optimize pasture use, prevent overgrazing, and maintain soil and livestock health

PRACTICAL SKILL ACTIVITY SCOPE OUTLINE

Given a scenario and information relating to planning, implementing, and managing rotational grazing systems to optimize pasture productivity, animal health, and environmental sustainability the learner will be able to:

PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0701	Plan and set up a paddock layout
PA0702	Herd and monitor livestock movement
PA0703	Conduct forage assessment and monitor pasture conditions
PA0704	Monitor livestock grazing patterns
PA0705	Maintain livestock records and data logs
PA0706	Implement safety procedures in livestock management

Applied Knowledge that underpins the Practical Skill

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0701	Surveying and mapping for designing paddock layouts
AK0702	Creating paddocks using fencing material
AK0703	Herding and directing livestock between paddocks

AK0704	Assessing forage quantity and quality for appropriate grazing rotations
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Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0701	Paddock/camps layout are planned and set up
IAC0702	Livestock movement is monitored
IAC0703	Pasture condition is surveyed / assessed and monitored
IAC0704	Livestock grazing patterns are monitored
IAC0705	Livestock records and data logs are maintained
IAC0706	Safety procedures in livestock management are implemented

4.8.2. Criteria for accreditation

Add additional line spaces as required. Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Classroom with chairs, tables, ventilated and luminated. Whiteboard, Projector and screen. Soils preparation, planting, fertilizer spreader, mechanical weeder, chemical spraying tools and equipment. Animal handling facilities, Animal processing equipment (dehorning, branding, castration, tail-docking, hoof-trimming, artificial insemination, shearing, vaccination equipment and tools). Animal species specimens Ablutions facility. Curriculum aligned Learning Material Quality Management System Learner Information Management System
CONSUMABLES	Seeds, Fertilizers, Pesticides and herbicides Mulch, Plant stakes, Twine, Row covers Feed (hay, grains, pellets), Mineral supplements, Bedding materials, medicines and vaccines, Disinfectants and Fly control products

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Facilitator must have a minimum of NQF Level 6 qualification in Agriculture with a minimum of 3 years operational experience as a Production Supervisor in Crop and Livestock Farm.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Infrastructure compliance with the OHS Act CIPC registered entity Valid Tax Compliance pin Display of Labour Laws within premises POPI policy Valid Lease Agreement / Title deed

Human Resource Requirements:

ASSESSMENT CENTRE	
QUALIFICATIONS & EXPERIENCE	Appointed and qualified Examination Officer. Appointed and trained Invigilators and Chief Invigilators.
FACILITATOR/LEARNER RATIO	Facilitator/learner ratio: 1 to 5

4.8.3 Exemptions

None

5. WORK EXPERIENCE MODULE (WM) SPECIFICATIONS:

Module ID	Module Title	NQF Level	Credits	Mode of delivery
613101-000-00-WM-01	Processes of Integrated Crop-Livestock Farming Systems Management	5	20	Contact
613101-000-00-WM-02	Utilization of Natural Resources in Crop and Livestock Farming	5	10	Contact
613101-000-00-WM-03	Management of Integrated Pest and Disease Practices and Sustainable Strategies for Crops and Livestock Health.	5	10	Contact
613101-000-00-WM-04	Determination of Quality and Market Readiness of Crops and Livestock	5	5	Contact
613101-000-00-WM-05	Management of Livestock Husbandry and Health for Optimal Production and Well-being	5	5	Contact
613101-000-00-WM-06	Practices of soil preparation, planting/sowing, plant nutrition, irrigation, pest and disease control of crops	5	5	Contact
613101-000-00-WM-07	Exploring Markets and Establishing Local Relationships	5	5	Contact
613101-000-00-WM-08	Management of Climate-Responsive Practices for Crops and Livestock	5	5	Contact

Detailing Work Experience Module (WM) contents

5.1. Work Experience Module (WM) – 01: 613101-000-00-WM-01, Processes of Integrated Crop-Livestock Farming Systems Management, NQF Level 5, Credits 20

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-WM-01	Processes of Integrated Crop-Livestock Farming Systems Management	5	20	Contact

(a) Purpose of the Work Experience Module:

The focus of the work experience is on providing the learner with an opportunity to acquire experience in the fundamentals of Integrated crop and livestock system interrelatedness. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 200 hours

(b) List of Work Experience Competencies:

WORK EXPERIENCE CODE	WORK EXPERIENCE COMPETENCY TITLE
WM-01-WE01	Plan and implement crop rotation
WM-01-WE02	Monitor soil health parameters such as pH, nutrient levels, and organic matter content.
WM01-WE03	Monitor the effects of crop rotation on soil structure, moisture retention, and microbial activity.
WM01-WE04	Perform daily feeding routines for different types of livestock
WM01-WE05	Monitor breeding cycles and assist with animal husbandry tasks (e.g., mating, birthing).
WM01-WE06	Identify and treat common livestock diseases and parasites.
WM01-WE07	Monitor the behaviour and grazing patterns of livestock in rotational systems.
WM01-WE08	Measure and record pasture growth rates.
WM01-WE09	Adjust grazing rotations based on forage availability and animal requirements.
WM01-WE10	Collect and store crop residues for animal feed.
WM01-WE11	Implement cover cropping strategies to improve soil health and provide forage for livestock

5.1.1. Scope of each Work Experience Competency:

WM-01-WE01: Participate in planning and implementing crop rotation	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 20 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0101	Conduct soil analysis to determine the soil fertility levels, pH, and nutrient composition
WA0102	Plan the crop rotation schedule.
WA0103	Select crops that are compatible with each other and with the soil conditions
WA0104	Participate in the actual planting and management of crops according to the rotation schedule

WA0105	Monitor the health of the crops, looking for signs of pests, diseases, or nutrient deficiencies
WA0106	Participate in harvesting the crops according to the rotation schedule
WA0107	Evaluate the performance of the crops, taking note of yields, quality, and any issues encountered.
WA0108	Maintain records of the crops planted, inputs used, and crop performance

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0201	Documentary evidence signed by the mentor/supervisor, in planning and implementing crop rotation schedules.

WM-01-WE02: Monitor soil health parameters such as pH, nutrient levels, and organic matter content.	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE:	
The person will be expected to engage in the following work activities over a period of 20 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0201	Collect soil samples from different areas of the farm, following proper sampling protocols
WA0202	Conduct soil tests to analyse soil health parameters
WA0203	Interpret the soil test results evaluate the current soil health status
WA0204	Identify any soil health issues, such as nutrient deficiencies, pH imbalances, or low organic matter content.
WA0205	Recommend specific soil amendments, such as lime for pH adjustment or organic matter additions for improving soil structure.
WA0206	Document soil health monitoring activities, including soil sampling, test results, and any soil health improvement practices

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0201	Documentary evidence signed by the mentor/supervisor, in ensuring the effectiveness and compliance of soil health monitoring and improvement activities

WM-01-WE03: Monitor the effects of crop rotation on soil structure, moisture retention, and microbial activity.

WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE:

The person will be expected to engage in the following work activities over a period of 20 hours

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0301	Select fields where crop rotation has been practiced for observation.
WA0302	Conduct soil observations to assess soil structure, moisture retention, and microbial activity.
WA0303	Assess soil moisture levels in the observed fields
WA0304	Evaluate soil structure by observing soil aggregates, root development, and soil compaction.
WA0305	Measure soil pH and nutrient levels in the observed fields.
WA0306	Assess microbial activity in the observed fields
WA0307	Record observations, including soil structure, moisture retention, and microbial activity.
WA0308	Compare their observations across different fields with varying crop Rotations

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0301	Documentary evidence signed by the mentor/supervisor, observing the effects of crop rotation on soil structure, moisture retention, and microbial activity

WM-01-WE04: Perform daily feeding routines for different types of livestock

WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE:

The person will be expected to engage in the following work activities over a period of 20 hours

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0401	Assist in planning the daily feeding schedule for livestock, considering their specific Dietary requirements, feeding frequency, and portion sizes.

WA0402	Preparing, monitoring feed, consumption and feeding the livestock according to the feeding schedule.
WA0403	Observe the health and behaviour of livestock during feeding, looking for signs of illness or discomfort that may affect their appetite or feeding habits.
WA0404	Assist in cleaning and sanitizing feeding equipment, such as troughs, feeders, and waterers, to maintain a hygienic feeding environment.
WA0405	Maintain records of feed types, quantities, and feeding times for livestock.
WA0406	Assist in adjusting feed rations based on factors such as animal growth rates, pregnancy, lactation, or changes in weather conditions

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0401	Documentary evidence signed by the mentor/supervisor, assisting in daily feeding routines for livestock would be involved in a range of work activities related to planning, preparing, and monitoring feed, as well as maintaining a clean and hygienic feeding environment and ensuring that the nutritional needs of the animals are met.

WM-01-WE05: Monitor breeding cycles and assist with animal husbandry tasks (e.g., mating, birthing).

WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE:

The person will be expected to engage in the following work activities over a period of 20 hours

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0501	Monitor the reproductive behaviour and cycles of animals, including recognizing signs of oestrus, mating behaviors, and gestation periods.
WA0502	Support the mating process, which include preparing animals for mating, monitoring mating behaviors, and ensuring optimal conditions for successful reproduction.
WA0503	Support birthing procedures, including providing care and support to pregnant animals during labour, assisting with the delivery process, and ensuring the well-being of newborn animals.
WA0504	Engage in various animal husbandry tasks related to breeding and reproduction, such as feeding and nutrition management, maintaining clean and sanitary conditions in animal housing areas, and monitoring the health and welfare of breeding animals.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0501	Documentary evidence signed by the mentor/supervisor
SE0502	Report on breeding livestock behaviours, mating events, and reproductive cycles of animals
SE0503	Feeding monitoring report

WM-01-WE06: Identify and treat common livestock diseases and parasites.

WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE:

The person will be expected to engage in the following work activities over a period of 10 hours

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0601	Recognize common livestock diseases through observation of clinical signs, symptoms, and diagnostic tests
WA0602	Administer treatments for common livestock diseases under the guidance of experienced personnel, including medication administration, wound care, and supportive therapy.
WA0603	Support with birthing procedures, including providing care and support to pregnant animals during labour, assisting with the delivery process, and ensuring the well-being of newborn animals.
WA0604	Implement biosecurity measures to prevent the spread of diseases and parasites within the livestock facility, including quarantine procedures, sanitation practices, and proper disposal of infectious materials.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0601	Documentary evidence signed by the mentor/supervisor on learner participation in identification of common livestock diseases, administering treatments, and implementing biosecurity measures.

WM-01-WE07: Monitor the behavior and grazing patterns of livestock in rotational systems.

WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE:

The person will be expected to engage in the following work activities over a period of 10 hours

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0701	Monitor and record the behaviour of livestock in rotational grazing systems, including grazing preferences, herd dynamics, and responses to changes in pasture conditions.
WA0702	Document grazing patterns of livestock within rotational systems, noting the duration and intensity of grazing in different areas, as well as any evidence of overgrazing or underutilization.
WA0703	Analyse observational data to identify trends and patterns in livestock behaviour and grazing habits
WA0704	Optimise rotational grazing, improve livestock welfare, and enhance the productivity and sustainability of the grazing system.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0701	Documentary evidence signed by the mentor/supervisor on learner participation in Assessments reports of nutrient flows, nutrient management plans, records of strategies explored

WM-01-WE08: Measure and record pasture growth rates.

WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE:

The person will be expected to engage in the following work activities over a period of 20 hours

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0801	Assess pasture conditions using appropriate tools and techniques
WA0802	Measure and record pasture growth rates at regular intervals using methods such as clipping samples, using grazing sticks
WA0803	Record pasture growth data, measurements of growth rates, forage yield estimates
WA0804	Analyse pasture growth data to identify trends and patterns over time.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0805	Written feedback and evaluations provided by mentors or supervisors regarding the accuracy, completeness, and effectiveness of learner's pasture assessment, data recording, analysis, and reporting efforts.

WM-01-WE09: Adjust grazing rotations based on forage availability and animal requirements.

WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE:

The person will be expected to engage in the following work activities over a period of 20 hours

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0901	Assess forage availability and quality in grazing areas through visual inspection, forage sampling.
WA0902	Evaluate the nutritional requirements and condition of livestock based on factors such as age, weight, stage of production, and health status to inform grazing rotation adjustments.
WA0903	Plan and adjust grazing rotations based on forage availability and animal requirements
WA0904	Monitor the effectiveness of grazing rotations, observing livestock behaviors, pasture utilization, and forage regrowth rates

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0901	Documentary evidence signed by the mentor/supervisor on learner participation in assessing forage, nutritional requirements, planning grazing rotations, and grazing monitoring.

WM-01-WE10 Collect and store crop residues for animal feed.

WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE:

The person will be expected to engage in the following work activities over a period of 20 hours

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA1001	Coordinate the collection of crop residues from fields, scheduling harvesting activities, coordinating equipment, personnel and ensuring compliance with safety and environmental regulations.

WA1002	Assess the quality of collected crop residues for use as animal feed, visual inspection for signs of mould and moisture content measurement
WA1003	Store collected crop residues in storage facilities, apply storage techniques to preserve quality, and monitor storage conditions to prevent spoilage and maintain feed integrity.
WA1004	Maintain records related to the collection and storage of crop residues, documentation of quantities harvested, storage locations, quality assessments, and any treatments applied to preserve feed quality.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE1001	Written feedback and evaluations provided by supervisors or mentors regarding the learner's performance in assisting with harvesting, crop residue collection and storage tasks

WM-01-WE11 Implement cover cropping strategies to improve soil health and provide forage for livestock

WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE:

The person will be expected to engage in the following work activities over a period of 20 hours

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WE1101	Plan and select cover crop species, considering factors such as soil health goals, crop rotation plans, and livestock forage needs.
WE1102	Establish cover crops, seedbed preparation, seeding methods (e.g., broadcasting, drilling), and monitoring initial growth stages to ensure successful establishment.
WE1103	Monitor soil health indicators, such as soil moisture levels, nutrient content, and microbial activity, to assess the impact of cover cropping strategies on soil fertility and structure.
WE1104	Integrate cover crops into livestock management practices, including grazing management strategies, forage utilization monitoring, and assessing the nutritional benefits of cover crops for livestock diets.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE1101	Documentary evidence signed by the mentor/supervisor on learner participation in planning and selection of cover crops, preparing cover crops, monitoring soil health and livestock grazing strategies.

Contextualized Workplace Knowledge

WORKPLACE KNOWLEDGE	
1	Farm production procedures
2	Production plans and calendars
3	Standard Operating procedures
4	Legislative requirements

5.1.2. Criteria for Workplace Approval

Physical Requirements:

Workplace	
EQUIPMENT & TOOLS	Functional Farm / Production enterprises Logbooks to capture learner progress against the work activities as per curriculum Log sheets for daily activities
CONSUMABLES	Not applicable

Human Resource Requirements:

Workplace	
QUALIFICATIONS & EXPERIENCE	Supervisor/Mentor qualification • NQF Level 6 qualification related to management of Crops and livestock and/or 3 years relevant work experience
MENTOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Work environment that meets minimum labour legislation compliance OHS Compliant

5.1.3. Exemptions

None

5.1.4 Additional Assignments to be Assessed Externally

None

5.2. Work Experience Module (WM) – 02: 613101-000-00- WM-02, Utilization of Natural Resources in Crop and Livestock Farming. NQF Level 5, Credits 10

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00- WM-02-	Utilization of Natural Resources in Crop and Livestock Farming.	5	10	Contact

(a) Purpose of the Work Experience Module:

The focus of the work experience is on providing the learner with an opportunity to skills and expertise in managing resources to optimize agricultural productivity and sustainability. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 100 hours.

(b) List of Work Experience Competencies:

WORK EXPERIENCE CODE	WORK EXPERIENCE COMPETENCY TITLE
WM-02-WE01	Allocation of resources such as land, water, and labour between crop and livestock enterprises
WM-02-WE02	Implement resource management practices
WM-02-WE03	Explore the interdependence between crop and livestock systems

5.2.1. Scope of each Work Experience Competency:

WM-02-WE01: Allocation of resources such as land, water and labour between crop and livestock enterprises.	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 20 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0101	Assess the availability and quality of resources required for crop and livestock enterprises
WA0102	Engage in planning and decision-making processes to allocate resources between crop and livestock enterprises
WA0103	Implement resource allocation plans and monitoring their over time, collecting data on crop and livestock performance, resource usage, production costs, and environmental outcomes to inform ongoing decision-making and adjustments.
WM-02-WE02: Implement resource management practices.	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 20 hours	

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0201	Plan crop rotation schedules
WA0202	Select cover crop species, establish cover crops in fallow fields or intercropped with cash crops, and managing cover crops to improve soil fertility, suppress weeds, reduce erosion, and provide forage for livestock, contributing to sustainable crop production systems.
WA0203	Implement IPM strategies, monitoring pest populations, implement cultural and biological control methods (e.g., crop diversification, habitat manipulation), and using targeted pesticide applications as a last resort.
WA0204	Plan and implement rotational grazing systems for livestock, i paddock design, grazing rotations, stocking densities, and pasture rest periods, to optimize forage utilization, improve animal health and performance, and enhance soil health and biodiversity on grazing lands.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0101	Written reports from the supervisor /mentor on the learner involvement in resource assessment, planning, budget planning and cost analysis and return on investment for the farm.

Scope of each Work Experience Competency:

WM-02-WE03: Explore the interdependence between crop and livestock systems	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 20 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0301	Analyse integrated farming systems between crop and livestock components, considering factors such as nutrient cycling, energy flows, and resource utilization efficiencies.
WA0302	Develop nutrient management plans that optimize the use of organic fertilizers, manure, and crop residues from livestock operations to meet the fertility needs of crops, minimize nutrient runoff, and enhance soil health.

WA0303	Explore strategies for integrating crop and livestock enterprises, such as rotational grazing, agroforestry, and mixed cropping systems, to maximize resource utilization, improve ecosystem services, and enhance farm productivity and sustainability.
WA0304	Examine the value chains connecting crop and livestock products, including feed inputs, animal outputs, and by-products, to identify opportunities for synergies, value addition, and diversification within integrated farming systems.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0301	Documentary evidence signed by the mentor/supervisor on learner participation in Assessments reports of nutrient flows, Nutrient management plans, records of strategies explored and implemented by learners to integrate crops and livestock.

Contextualized Workplace Knowledge

WORKPLACE KNOWLEDGE	
1	Principles, components and interaction within agricultural systems
2	Principles and techniques for allocating resources such as land, water, nutrients, and labour.
3	Best practices for crop and livestock production, including crop rotation, cover cropping, integrated pest management, and rotational grazing
4	Soil health principles, nutrient cycling processes, and strategies for managing soil fertility and nutrient availability in crop and livestock systems
5	The ecosystem services provided by agricultural landscapes, including soil Conservation
6	Environmental regulations, guidelines, and best practices for minimizing negative environmental impacts
7	Methods and tools for monitoring and evaluating the performance of resource

5.2.2. Criteria for accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Logbooks to capture learner progress against the work activities as per curriculum • Log sheets for daily activities
CONSUMABLES	Environmental regulations Cover crops plan

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Supervisor/mentor qualification • NQF Level 6 qualification related to management of Crops and livestock and/or 3 years relevant work experience
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Work environment that meets minimum labour legislation compliance • Compliant and current health and safety audit report
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

Additional Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
	Work environment that meets minimum labour legislation compliance • Compliant and current health and safety audit report

5.2.3. Exemptions

None

5.2.4 Additional Assignments to be Assessed Externally

None

5.3 Work Experience Module (WM) – 03: 613101-000-00- WM-03, Management of Integrated Pest and Disease Practices and Sustainable Strategies for Crops and Livestock Health, NQF Level 5, Credits 10

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00- WM-03	Management of Integrated Pest and Disease Practices and Sustainable Strategies for Crops and Livestock Health	5	10	Contact

Purpose of the Work Experience Module:

The focus of the work experience is on providing the learner an opportunity to skills and expertise in identifying, monitoring, and managing pests and diseases affecting crops and livestock, equipping them with essential competencies for effective pest and disease control in agricultural settings. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 6 days.

(b) List of Work Experience Competencies:

WORK EXPERIENCE CODE	WORK EXPERIENCE COMPETENCY TITLE
WM-03-WE01	Identify common pests and diseases affecting crops and livestock, including visual inspection
WM-03-WE02	Monitor and scout activities regularly to assess pest and disease pressure in crop and livestock populations
WM-03-WE03	Attend to biosecurity protocols such as restricted access zones, disinfection procedures, and isolation of sick animals
WM03-WE04	Use personal protective equipment to ensure safety and minimize environmental impact.
WM03-WE05	Implement principles and practices of IPM, which involve the coordinated use of multiple pest management strategies
WM03-WE06	Prevent diseases and manage strategies in crops and livestock, including sanitation practices, vaccination programs, quarantine measures

5.3.1 Scope of each Work Experience Competency:

WM03-WE01: Identify common pests and diseases affecting crops and livestock, including visual inspection
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE
The person will be expected to engage in the following work activities over a period of 20 hours

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0101	Conduct visual inspections of crops and livestock to identify signs of common pests and diseases.
WA0102	Implement appropriate control measures upon detecting pests or diseases, such as quarantine protocols or treatment plans.
WA0103	Monitor and record instances of pest or disease outbreaks to track patterns and inform future prevention strategies.
WA0104	Attend to biosecurity protocols such as restricted access zones, disinfection procedures, and isolation of sick animals

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0101	Documentary evidence signed by the mentor/supervisor on learner participation in visual identification of crops and livestock, quarantine protocols, outbreaks of pests and diseases and attending to Biosecurity protocols.

Scope of each Work Experience Competency:

WM03- WE02: Participate in regular monitoring and scouting activities to assess pest and disease pressure in crop and livestock	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0201	Monitor and scout the field regularly to assess the presence and severity of pests and diseases in crop and livestock.
WA0202	Utilize appropriate monitoring tools and techniques, such as traps, visual surveys, and diagnostic tests, to accurately assess pest and disease pressure.
WA0203	Record and analyse data collected during monitoring activities to identify trends, patterns, and potential risks to crop and livestock health.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0201	Documentary evidence signed by the mentor/supervisor on learner participation in field monitoring and scouting activities, using monitoring techniques and recorded monitoring activities.

Scope of each Work Experience Competency:

WM03-WE03: Implement biosecurity protocols such as restricted access zones, disinfection procedures, and isolation of sick animals	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 20 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0301	Adhere to biosecurity protocols by following procedures for accessing restricted zones within the workplace, including obtaining necessary permissions and using designated entry points.
WA0302	Implement disinfection procedures as instructed, ensuring thorough cleaning and sanitization of equipment, vehicles, and personal protective gear to prevent the spread of pathogens.
WA0303	Identify and isolate sick animals promptly, segregating them from healthy populations to minimize the risk of disease transmission and facilitate appropriate veterinary care.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0301	Documentary evidence signed by the mentor/supervisor on learner participation in adhering to standard operating procedures, biosecurity protocols, and health and safety requirements

Scope of each Work Experience Competency:

WM03-WE04 Use personal protective equipment to ensure safety and minimize environmental impact.	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 20 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0401	Wear and utilize personal protective equipment (PPE) properly such as gloves, masks, goggles, or respirators as required by workplace safety protocols.
WA0402	Inspect and maintain PPE regularly to ensure it remains in good condition and provides effective protection against workplace hazards.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0401	Documentary evidence signed by the mentor/supervisor on learner participation in adhering to standard operating procedures, biosecurity protocols, and health and safety requirements.

Scope of each Work Experience Competency:

WM03-WE05 Exposed to the principles and practices of IPM, which involve the coordinated use of multiple pest management strategies	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0501	Employing a combination of cultural, biological, physical, and chemical control methods to control pest populations.
WA0502	Implement IPM strategies in agricultural settings, including identifying pest thresholds, monitoring techniques, and selecting appropriate control measures based on ecological and economic considerations.
WA0503	Implement IPM practices, such as crop rotation, habitat modification, biological control (e.g., introducing natural predators), and judicious use of pesticides, under the guidance of experienced professionals.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0501	Documentary evidence signed by the mentor/supervisor on learner participation in implementing IPM strategies and practices using IPM manuals and guidelines.

Scope of each Work Experience Competency:

WM03-WE06 Manage diseases prevention strategies in crops and livestock, including sanitation practices, vaccination programs, quarantine measures	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0601	Clean and disinfect equipment, facilities, and animal housing areas to minimize the spread of pathogens.

WA0602	Administer vaccine, keep record, and monitor vaccine efficacy to bolster immunity and prevent disease outbreaks in crops and livestock populations.
WA0603	Identify and isolate potentially sick livestock or contaminated materials to prevent the introduction and spread of pathogens within crop and livestock populations.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0601	Documentary evidence signed by the mentor/supervisor on learner participation in following sanitation, vaccination, Quarantine guidelines and following standard operating procedures stipulated on procedures.

Contextualised Workplace Knowledge

WORKPLACE KNOWLEDGE	
1	Local pest and diseases profiles in the specific geographic area.
2	Familiarity with integrated Pest and disease management principles
3	Knowledge of sustainable farming practices
4	Regulatory requirements related to pest and diseases management.

5.3.2. Criteria for accreditation

Add additional line spaces as required. Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Logbooks to capture learner progress against the work activities as per curriculum Log sheets for daily activities
CONSUMABLES	All consumables required related to the work experience

ASSESSMENT CENTRE	
EQUIPMENT & TOOLS	Not applicable
CONSUMABLES	Not applicable

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Supervisor/mentor qualification • NQF Level 6 qualification related to management of Crops and livestock and/or 3 years relevant work experience
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Work environment that meets minimum labour legislation compliance • Compliant and current health and safety audit report
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

5.3.3. Exemptions

None

5.3.4 Additional Assignments to be Assessed Externally

None

5.4. Work Experience Module (WM) – 04: 613101-000-00-WM-04, Determination of Quality and Market Readiness of Crops and Livestock, NQF Level 5, Credits 5

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-WM-04	Determination of Quality and Market Readiness of Crops and Livestock	5	5	Contact

(a) Purpose of the Work Experience Module:

The focus of the work experience is on providing the learner an opportunity and skills necessary to assess and improve the quality and market readiness of crops and livestock within the workplace, enabling them to contribute to the production of high-quality agricultural products that meet market demands and enhance the overall competitiveness and profitability of the agricultural operation. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 50 hours.

(b) List of Work Experience Competencies:

WORK EXPERIENCE CODE	WORK EXPERIENCE COMPETENCY TITLE
WM-04-WE01	Plan meeting to schedule harvest activities based on crop maturity, weather forecasts, and market demand
WM-04-WE02	Monitor crop quality, equipment performance, and safety measures.
WM-04-WE03	Sort and clean harvested crops according to size, shape, and quality standards.
WM-04-WE04	Package crops in appropriate containers, ensuring proper labelling and storage conditions.

5.4.1. Scope of each Work Experience Competency:

WM04-WE01: Plan meeting to schedule harvest activities based on crop maturity, weather forecasts, and market demand	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0101	Plan meetings to discuss and coordinate harvest Activities
WA0102	Develop a harvest schedule that maximizes yield quality and quantity while minimizing risks associated with adverse weather conditions
WA0103	Utilize relevant tools and resources, such as crop maturity models, weather forecasting data, and market analysis reports, to inform decision-making

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0101	Documentary evidence signed by the mentor/supervisor on learner participation in planning meetings, planning for harvesting, using relevant data sources e.g, weather forecasts, and digital tools.

Scope of each Work Experience Competency:

WM04-WE02: Monitor crop quality, equipment performance, and safety measures.
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE
The person will be expected to engage in the following work activities over a period of 10 hours

WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0201	Monitor crop quality through visual inspections, sampling, and quality control procedures
WA0202	Assess performance and maintenance of equipment
WA0203	Wear appropriate personal protective equipment (PPE), following equipment operating procedures, and identifying and mitigating potential hazards in the workplace.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0201	Documentary evidence signed by the mentor/supervisor on learner participation in monitoring crop quality, checking of equipment and adhering to safety procedures and protocols.

Scope of each Work Experience Competency:

WM04-WE03: Sort and clean harvested crops according to size, shape, and quality standards.	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0301	Sort harvested crops by size, shape, and quality standards, following established procedures and guidelines.
WA0302	Clean harvested crops to remove debris, dirt, and damaged produce, ensuring compliance with food safety and quality standards.
WA0303	Sort and clean equipment safely, under the supervision of experienced personnel.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0301	Documentary evidence signed by the mentor/supervisor on learner participation in sorting harvested crops, cleaning crops, using cleaning equipment safely.

Scope of each Work Experience Competency:

WM04-WE04: Package crops in appropriate containers, ensuring proper labelling and storage conditions.	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	

The person will be expected to engage in the following work activities over a period of 20 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0401	Package crops in suitable containers, ensuring they are correctly filled, sealed, and labelled according to established standards and requirements.
WA0402	Monitor storage conditions, such as temperature, humidity, and ventilation, to maintain crop quality and prevent spoilage during storage.
WA0403	Handle packaging equipment safely under the supervision of experienced personnel, following proper operating procedures and safety protocols.
WA0404	Maintain storage areas, including stacking containers, arranging inventory, and keeping records of packaged crops for inventory management purposes.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0401	Documentary evidence signed by the mentor/supervisor on learner participation in packaging crops in suitable containers, storage conditions, handling packing equipment safely and maintaining storage containers.

Contextualised Workplace Knowledge

WORKPLACE KNOWLEDGE	
1	Knowledge of Quality Standards and Requirements
2	Knowledge of Market trends, consumer preferences and demand drivers in the agricultural sector
3	Post harvest handling and Processing techniques
4	Supply chain dynamics and market access.

5.4.2. Criteria for Accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Logbooks to capture learner progress against the work activities as per curriculum • Log sheets for daily activities
CONSUMABLES	All consumables required related to the work experience

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Supervisor/mentor qualification • NQF 6 qualification related to management of Crops and livestock and/or 3 years relevant work experience
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Work environment that meets minimum labour legislation compliance • Compliant and current health and safety audit report
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

5.4.3. Exemptions

None

5.4.4 Additional Assignments to be Assessed Externally

None

5.5. Work Experience Module (WM) – 05: 613101-000-00-WM-05, Management of Livestock Husbandry and Health for Optimal Production and Well-being, NQF Level 5, Credits 5

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-WM-05	Management of Livestock Husbandry and Health for Optimal Production and Well-being	5	5	Contact

(a) Purpose of the Work Experience Module:

The focus of the work experience is on providing the learner an opportunity to acquire skills, and best practices necessary to ensure optimal production and the well-being of livestock. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 50 hours.

(b) List of Work Experience Competencies:

WORK EXPERIENCE CODE	WORK EXPERIENCE COMPETENCY TITLE
WM-05-WE01	Apply animal husbandry Practices
WM-05-WE02	Manage Livestock health
WM-05-WE03	Monitor Livestock

5.5.1. Scope of each Work Experience Competency:

WM05-WE01 Apply Animal Husbandry Practices.	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 20 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0101	Feed Livestock
WA0102	Handle Livestock
WA0103	House Livestock

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0101	Documentary evidence signed by the mentor/supervisor on learner participation in livestock feeding procedures, livestock safe handling, and livestock housing activities.

Scope of each Work Experience Competency:

WM05-WE02 Manage Livestock health	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 20 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0201	Identify common livestock diseases, symptoms and signs of illness.
WA0202	Implement vaccination schedules, parasites control
WA0203	Implement biosecurity protocols
WA0204	Administer medication, wound care
WA0205	Record keeping of health records

(d) Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0201	Documentary evidence signed by the mentor/supervisor on learner participation in livestock monitoring procedures, administering types of treatments for livestock.

(c) Scope of each Work Experience Competency:

WM05-WE03 Monitor Livestock	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0301	Observe livestock for early detection of illness
WA0302	Record keeping on livestock performance

(d) Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0301	Documentary evidence signed by the mentor/supervisor on learner participation in livestock monitoring procedures, and reading of livestock performance

(e) Contextualised Workplace Knowledge

WORKPLACE KNOWLEDGE	
1	Animal behavior, needs and welfare requirements
2	Livestock nutritional requirements for different livestock and stages of production
3	Common livestock diseases, their causes, transmission pathways and prevention.
4	Breeding strategies, heat detection methods, artificial insemination techniques and pregnancy diagnosis.
5	Livestock housing requirements
6	Record keeping to track health status and performance of individual livestock
7	Relevant regulatory compliance and animal welfare standards.

5.5.2. Criteria for Accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Logbooks to capture learner progress against the work activities as per curriculum • Log sheets for daily activities
CONSUMABLES	All consumables required related to the work experience

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Supervisor/mentor qualification • NQF Level 6 qualification related to management of Crops and livestock and/or 3 years relevant work experience
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Work environment that meets minimum labour legislation compliance • Compliant and current health and safety audit report
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

5.5.3. Exemptions

None

5.5.4 Additional Assignments to be Assessed Externally

5.6. Work Experience Module (WM) – 06: 613101-000-00-WM-06: Practice Soil preparation, planting/sowing, plant nutrition, irrigation, pest and disease control of crops, NQF Level 5, Credits 5

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-WM-06	Practice Soil preparation, planting/sowing, plant nutrition, irrigation, pest and disease control of crops	5	5	Contact

(a) Purpose of the Work Experience Module:

The focus of the work experience is on providing the learner an opportunity to acquire skills in Soil preparation, planting/sowing, plant nutrition, irrigation, pest and disease control of crops. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 50 hours.

(b) List of Work Experience Competencies:

WORK EXPERIENCE CODE	WORK EXPERIENCE COMPETENCY TITLE
WM06-WE01	Prepare soil for crops planting
WM06-WE02	Administer planting/sowing
WM06-WE03	Apply plant Nutrition
WM06-WE04	Install Irrigation system
WM06-WE05	Control pest and Disease Control

5.6.1. Scope of each Work Experience Competency:

WM06-WE01: Prepare Soil for crop planting	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0101	Assess soil conditions (texture, structure, pH, and fertility) through observation and soil testing.
WA0102	Operate basic soil preparation equipment (e.g., plows, harrows, and tillers) for different soil types.

WA0103	Apply soil amendments such as lime, compost, and organic matter to improve soil fertility.
WA0104	Implement soil conservation techniques (e.g., contour plowing, cover cropping) to prevent erosion and degradation.
WA0105	Prepare seedbeds to ensure proper aeration, drainage, and nutrient availability

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0101	Workplace Logbook or Supervisor's Report
SE0102	Soil Analysis Report
SE0103	Equipment Usage Records
SE0104	Seedbed Preparation Checklist and Visual Evidence

WM06-WE02: Plant /Sow crops	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0201	Select appropriate crop varieties based on climatic conditions, soil type.
WA0202	Prepare seedbeds or plant holes according to crop requirements.
WA0203	Apply correct sowing methods (broadcasting, drilling, transplanting) for different crops.
WA0204	Implement optimal planting depth and spacing to ensure healthy crop establishment.
WA0205	Apply row planting, intercropping, and companion planting.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0201	Workplace Logbook or Supervisor's Report
SE0202	Crop Selection Report
SE0203	Seedbed or Planting Hole Preparation Records
SE0204	Sowing and Planting Method Records

SE0205	Planting Depth and Spacing Documentation
SE0206	Row Planting, Intercropping, and Companion Planting report
SE0207	Growth Monitoring Report

WM06-WE03: Apply Plant Nutrition	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0301	Identify nutrient deficiencies and recommend corrective measures.
WA0302	Select and apply appropriate fertilizers (organic, inorganic, or slow-release) based on crop needs.
WA0303	Implement proper fertilizer application techniques (broadcasting, fertigation, foliar feeding) to maximize nutrient uptake.
WA0304	Monitor crop growth and adjust nutrient application accordingly.
WA0305	Prevent nutrient loss through leaching, runoff, and volatilization by applying best management practices.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0301	Workplace Logbook or Supervisor's Report
SE0302	Fertilizer Selection and Application Record
SE0303	Crop Growth Monitoring Report
SE0304	Records of soil conservation techniques

WM06-WE04: Implement Irrigation methods	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0401	Identify irrigation methods based on crop type and field conditions.
WA0402	Install and maintain irrigation equipment for water distribution.

WA0403	Monitor soil moisture levels using tools
WA0404	Implement water conservation strategies
WA0405	Adjust irrigation based on crop growth stages and environmental factors.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0401	Irrigation tools

WM06-WE05: Control Pests and Diseases	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0501	Identify common pests, diseases, and weeds affecting crops in the field.
WA0502	Monitor crop health using scouting techniques and record observations
WA0503	Apply integrated pest management (IPM) strategies, including biological, mechanical, and chemical controls.
WA0504	Apply pesticides and herbicides according to recommended guidelines.
WA0505	Implement disease prevention measures such as crop rotation, resistant varieties, and sanitation.

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0501	Workplace Logbook or Supervisor's Report
SE0502	Irrigation Method Selection Report
SE0503	Irrigation System Installation and Maintenance Records
SE0504	Soil Moisture Monitoring Record
SE0505	Documentation of conservation strategies implemented
SE0506	Irrigation Adjustment Report

Contextualized Workplace Knowledge

WORKPLACE KNOWLEDGE	
1	Soil for Crop Planting processes
2	Planting/Sowing processes
3	Plant Nutrition requirements
4	Irrigation methods and processes
5	Pest and Disease Control and diseases management

5.6.2. Criteria for Accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Logbooks to capture learner progress against the work activities as per curriculum • Log sheets for daily activities
CONSUMABLES	All consumables required related to the work experience

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Supervisor/mentor qualification • NQF Level 6 qualification related to management of Crops and livestock and/or 3 years relevant work experience
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Work environment that meets minimum labour legislation compliance • Compliant and current health and safety audit report
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

5.6.3. Exemptions

None

5.6.4 Additional Assignments to be Assessed

Externally

5.7. Work Experience Module (WM) – 07: 613101-000-00-WM-07, Exploring markets and establishing local relationships, NQF Level 5, Credits 5

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-WM-07	Exploring markets and establishing local relationships,	5	5	Contact

a) Purpose of the Work Experience Module:

The focus of the work experience is on providing the learner an opportunity to acquire skills, and best practices necessary to analyse the market dynamics and building connections within the local community to enhance the farms profitability and sustainability. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 50 hours

(b) List of Work Experience Competencies:

WORK EXPERIENCE CODE	WORK EXPERIENCE COMPETENCY TITLE
WM07-WE01	Identify potential buyers
WM07-WE02	Identify key stakeholder networking
WM07-WE03	Employ market diversification
WM07-WE04	Implement product Quality

5.7.1. Scope of each Work Experience Competency:

WM07-WE01: Identify potential buyers	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0101	Conduct interviews with local market
WA0102	Interact with local buyers such as farmers market, grocery store owners, restaurants and food distributors

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0101	Documentary evidence signed by the mentor/supervisor on learner interviews at local market, interacting with local buyers.

Scope of each Work Experience Competency:

WM07-WE02 Identify key stakeholder networking	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0201	Identify and categories key stakeholder relevant to the farm

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0201	Documentary evidence signed by the mentor/supervisor on learner interacting with local market events, stakeholders identified and reports

Scope of each Work Experience Competency:

WM07-WE03 Employ market diversification	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0301	Identify different market channels available

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0301	Documentary evidence signed by the mentor/supervisor on learner interacting with Reports on market trends, consumer preferences, opportunities for diversification.

Scope of each Work Experience Competency:

WM07- WE04 Implement product Quality	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 10 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0401	Product grading and visual inspections
WA0402	Customer feedback on products

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0401	Documentary evidence signed by the mentor/supervisor on learner interacting with quality control on product inspection, assessment of products and quality standard requirement adherence.

Contextualised Workplace Knowledge

WORKPLACE KNOWLEDGE	
1	Knowledge to identify target market and local market dynamics
2	Consumer preferences
3	Basic marketing and promotions strategies
4	Relevant regulatory requirements governing food safety

5.7.2. Criteria for accreditation Criteria for Workplace Approval

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Logbooks to capture learner progress against the work activities as per curriculum • Log sheets for daily activities
CONSUMABLES	All consumables required related to the work experience

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Supervisor/mentor qualification • NQF Level 6 qualification related to management of Crops and livestock and/or 3 years relevant work experience
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Work environment that meets minimum labour legislation compliance • Compliant and current health and safety audit report

FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm
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5.7.3. Exemptions

None

5.7.4 Additional Assignments to be Assessed

Externally

5.8. Work Experience Module (WM) – 08: 613101-000-00-WM-08, Management of Climate-Responsive Practices for Crops and Livestock, NQF Level 5, Credits 5

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-WM-08	Climate-Responsive Practices to crop and livestock management,	5	5	Contact

(a) Purpose of the Work Experience Module:

The focus of the work experience is on providing the learner an opportunity to be equipped with skills to adapt agricultural practices to the changing climate conditions, thereby improving resilience, sustainability, and productivity on the farm. The learning contract time, which is the time that reflects the required duration of enrolment for this module, is at least 6 days.

(b) List of Work Experience Competencies:

WORK EXPERIENCE CODE	WORK EXPERIENCE COMPETENCY TITLE
WM08-WE01	Use weather forecasting tools, climate data;

5.8.1. Scope of each Work Experience Competency:

WM08-WE01: Use weather forecasting tools, climate data	
WORKPLACE EXPERIENCE COMPETENCY SCOPE OUTLINE	
The person will be expected to engage in the following work activities over a period of 25 hours	
WORK EXPERIENCE COMPETENCY ELEMENT CODES	WORK EXPERIENCE COMPETENCY ELEMENTS
WA0101	Analyze weather forecasts to anticipate weather conditions
WA0102	Identify historical climate data relevant to the area
WA0103	Set up weather monitoring instruments on the farm

Supporting evidence

WORK EXPERIENCE CODES	SUPPORTING EVIDENCE
SE0101	Documentary evidence signed by the mentor/supervisor on learner analyzing weather forecast report, temperature, rainfall patterns and seasonal variations

Contextualized Workplace Knowledge

WORKPLACE KNOWLEDGE	
1	Principles of climate change, weather patterns, and climate variability.
2	Physiological responses of crops and livestock to climate stresses such as heat, drought and extreme weather events.
3	Water management techniques which include irrigation, water conservation strategies and drainage systems
4	Soil management strategies
5	IPDM principles and practices for managing pest and disease pressures in crops and Livestock

5.8.2. Criteria for Accreditation

Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	Logbooks to capture learner progress against the work activities as per curriculum • Log sheets for daily activities
CONSUMABLES	All consumables required related to the work experience

Human Resource Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Supervisor/mentor qualification • NQF Level 6 qualification related to management of Crops and livestock and/or 3 years relevant work experience
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

Legal Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
QUALIFICATIONS & EXPERIENCE	Work environment that meets minimum labour legislation compliance • Compliant and current health and safety audit report
FACILITATOR/LEARNER RATIO	Supervisor/mentor to worker ratio of 1: maximum 5 depending on the size of the farm

5.8.3. Exemptions

None

5.8.4 Additional Assignments to be Assessed Externally

None

6. POSSIBLE SEQUENCING AND INTEGRATION

Listing and order of modules in the sequence in which these modules will follow each other during delivery/implementation. This allows for integration of KM, AM (PM/ WM) as work logically flows.

ORDER	MODULE TITLE	MODULE CODE	LEVEL	CREDITS
1.	613101-000-00-KM-01	Crops and livestock management	5	10
2	613101-000-00-PM-01	Manage crops and livestock production practices..	5	10
3.	613101-000-00-WM-01	Integrated Crop-Livestock Systems	5	20
4.	613101-000-00-KM-02	Management of Agricultural Resources	5	5
5.	613101-000-00-PM-02	practice sustainable land and resources in management	5	10
6.	613101-000-00-WM-02	Resource utilization in crop and livestock	5	10
7.	613101-000-00-KM-03	Integrated Pest and Disease Management in Agriculture and Livestock	5	5
8.	613101-000-00-PM-03	Apply Integrated Pest and Disease Management in Agriculture	5	7
9.	613101-000-00-WM-03	Integrated Pest and Disease Management and sustainable strategies for Crop and Livestock Health.	5	10
10.	613101-000-00-KM-04	Harvesting and Value Addition of Crops and Livestock market readiness	5	5
11.	613101-000-00-PM-04:	Apply Post-Harvest Management and Livestock Weaning	5	10
12.	613101-000-00-WM-04	Quality and Market Readiness of Crop and livestock	5	5
13.	613101-000-00-KM-05	Livestock Care, Nutrition, and Health Management	5	10
14	613101-000-00-PM-05:	Livestock Nutrition and shelter	5	5
15	613101-000-00-WM-05	Livestock Husbandry and Health Management for Optimal Production and Well-being	5	10
16	613101-000-00-KM-06	Soil preparation, planting/sowing, plant nutrition, irrigation, pest and disease control of crops	5	10

17	613101-000-00-PM-06	Prepare Soil, plant/sow, fertilize, irrigate, control crop pest and diseases of crops	5	10
18	613101-000-00-WM-06	Practice Soil preparation, planting/sowing, plant nutrition, irrigation, pest and disease control of crops	5	10
19	613101-000-00-KM-07	Production costs, Market and value Chain Management in Crops and Livestock,	5	10
20	613101-000-00-PM07	Conduct Market Intelligence and Agribusiness Development	5	5
21	613101-000-00-WM-07	Exploring markets and establishing local relationships	5	5
22	613101-000-00-KM-08	Climate-Resilient Farming and Livestock Management	5	5
23	613101-000-00-PM-08	Practice Climate-Resilient Farming	5	10
24	613101-000-00-WM-08	Climate-Responsive Practices to crop and livestock management	5	5

SECTION 4. STATEMENT OF WORK EXPERIENCE

QUALIFICATION/PART-QUALIFICATIONS/SKILLS PROGRAMME TYPE	QUALIFICATION/PART - QUALIFICATION/SKILLS PROGRAMME TITLE/DESCRIPTOR	NQF LEVEL	CREDITS
Higher Occupational Certificate	Mixed Crop and Livestock Farmer	5	197

CURRICULUM CODE	613101-000-00
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LEARNER DETAILS

NAME:	
ID NUMBER:	

EMPLOYER DETAILS

COMPANY NAME:	
ADDRESS:	
SUPERVISOR NAME:	
WORK TELEPHONE:	
E-MAIL:	

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-WM-01	Processes of Integrated Crop-Livestock Farming Systems Management	5	20	Contact

WM-01-WE01:	Participate in planning and implementing crop rotation		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0101	Conduct or assist in soil analysis to determine the soil's fertility levels, pH, and nutrient composition		
WA0102	Participate in planning the crop rotation schedule.		
WA0103	Select crops that are compatible with each other and with the soil conditions		
WA0104	Participate in the actual planting and management of crops according to the rotation schedule		
WA0105	Monitor the health of the crops, looking for signs of pests, diseases, or nutrient deficiencies		
WA0106	Participate in harvesting the crops according to the rotation schedule		
WA0107	Evaluate the performance of the crops, taking note of yields, quality, and any issues encountered.		
WA0108	Maintain records of the crops planted, inputs used, and crop performance		
	SUPPORTING EVIDENCE	DATE	SIGNATURE
SE0101	Documentary evidence signed by the mentor/supervisor, such as meeting minutes, for all required work activities related to planning and implementing crop rotation schedules		
WM-01-WE02	Monitor soil health parameters such as pH, nutrient levels, and organic matter content.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0201	Collect soil samples from different areas of the farm, following proper sampling protocols		
WA0202	Conduct soil tests to analyses soil health parameters		
WA0203	Interpret the soil test results to evaluate the current soil health status		

WA0204	Identify any soil health issues, such as nutrient deficiencies, pH imbalances, or low organic matter content		
WA0205	Recommending specific soil amendments, such as lime for pH adjustment or organic matter additions for improving soil structure.		
WA0206	Document soil health monitoring activities, including soil sampling, test results, and any soil health improvement practices		
	SUPPORTING EVIDENCE	DATE	SIGNATURE
SE0201	Documentary evidence signed by the mentor/supervisor, in ensuring the effectiveness and compliance of soil health monitoring and improvement activities		
WM-01-WE03	Observe the effects of crop rotation on soil structure, moisture retention, and microbial activity.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0301	Select fields where crop rotation has been practiced for observation.		
WA0302	Conduct soil observations to assess soil structure, moisture retention, and microbial activity.		
WA0303	Assess soil moisture levels in the observed fields		
WA0304	Evaluate soil structure by observing soil aggregates, root development, and soil compaction.		
WA0305	Measure soil pH and nutrient levels in the observed fields.		
WA0306	Assess microbial activity in the observed fields		
WA0307	Record observations, including soil structure, moisture retention, and microbial activity.		
WA0308	Compare their observations across different fields with varying crop rotation		
	SUPPORTING EVIDENCE	DATE	SIGNATURE
SE0301	Documentary evidence signed by the mentor/supervisor, observing the effects of crop rotation on soil structure, moisture retention, and microbial activity		

WM01-WE04	Assist in daily feeding routines for different types of livestock		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0401	Assist in planning the daily feeding schedule for livestock, considering their specific Dietary requirements, feeding frequency, and portion sizes		
WA0402	Preparing, monitoring feed, consumption and feeding the livestock according to the feeding schedule.		
WA0403	Observe the health and behaviour of livestock during feeding, looking for signs of illness or discomfort that may affect their appetite or feeding habits.		
WA0404	Assist in cleaning and sanitizing feeding equipment, such as troughs, feeders, and waterers, to maintain a hygienic feeding environment.		
WA0405	Maintain records of feed types, quantities, and feeding times for livestock,		
WA0406	Assist in adjusting feed rations based on factors such as animal growth rates, pregnancy, lactation, or changes in weather conditions		
	SUPPORTING EVIDENCE	DATE	SIGNATURE
SE0401	Documentary evidence signed by the mentor/supervisor, assisting in daily feeding routines for livestock would be involved in a range of work activities related to planning, preparing, and monitoring feed, as well as maintaining a clean and hygienic feeding environment and ensuring that the nutritional needs of the animals are met.		
WM-01-WE05	Observe breeding cycles and assist with animal husbandry tasks (e.g., mating, birthing).		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0501	Observe the reproductive behaviour and cycles of animals, including recognizing signs of oestrus, mating behaviours, and gestation periods.		
WA0502	Assist with the mating process, which may include preparing animals for mating, monitoring mating behaviour, and ensuring optimal conditions for successful reproduction.		

WA0503	Participate in assisting with birthing procedures, including providing care and support to pregnant animals during labour, assisting with the delivery process, and ensuring the well-being of newborn animals.		
WA0504	Engage in various animal husbandry tasks related to breeding and reproduction, such as feeding and nutrition management, maintaining clean and sanitary conditions in animal housing areas, and monitoring the health and welfare of breeding animals.		
	SUPPORTING EVIDENCE	DATE	SIGNATURE
SE0201	Documentary evidence signed by the mentor/supervisor, documenting their observations of breeding behaviours, mating events, and reproductive cycles of animals. preparing, and monitoring feed, as well as maintaining a clean and hygienic feeding environment and ensuring that the nutritional needs of the animals are met illustrating proper techniques for assisting with mating procedures and birthing processes.		
WM-01-WE06	Assist in the identification and treatment of common livestock diseases and parasites.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0601	Recognise common livestock diseases through observation of clinical signs, symptoms, and diagnostic tests		
WA0602	Assist in administering treatments for common livestock diseases under the guidance of experienced personnel, including medication administration, wound care, and supportive therapy.		
WA0603	Identify common parasites affecting livestock, including internal parasites (e.g., worms) and external parasites (e.g., ticks, lice), and assist in implementing control measures such as deworming and parasite prevention strategies.		
WA0604	Implement biosecurity measures to prevent the spread of diseases and parasites within the livestock facility, including quarantine procedures, sanitation practices, and proper disposal of infectious materials.		
	Supporting Evidence	Date	Signature

SE0601:	Documentary evidence signed by the mentor/supervisor on learner participation in identification of common livestock diseases, administering treatments, and implementing biosecurity measures.		
WM-01-WE07	Observe the behaviour and grazing patterns of livestock in rotational systems.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0701	Observe and record the behaviour of livestock in rotational grazing systems, including grazing preferences, herd dynamics, and responses to changes in pasture conditions.		
WA0702	Document grazing patterns of livestock within rotational systems, noting the duration and intensity of grazing in different areas, as well as any evidence of overgrazing or underutilization.		
WA0703	Analyse observational data to identify trends and patterns in livestock behaviour and grazing habits, informing management decisions related to paddock rotation, stocking rates, and pasture rest periods.		
WA0704	Provide recommendations to optimize rotational grazing practices, improve livestock welfare, and enhance the productivity and sustainability of the grazing system.		
	Supporting Evidence		
SE0701	Documentary evidence signed by the mentor/supervisor on learner participation in Assessments reports of nutrient flows, Nutrient management plans, Records of strategies explored and implemented by learners to integrate crop and livestock.		
WM01-WE08	Measure and record pasture growth rates.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0801	Assess pasture conditions using appropriate tools and techniques, including visual observation, pasture height measurements, and estimation of forage biomass.		
WA0802	Measure and record pasture growth rates at regular intervals using methods such as clipping samples, using grazing sticks, or utilizing electronic pasture monitoring systems.		

WA0803	Record pasture growth data, including measurements of growth rates, forage yield estimates, and environmental conditions influencing pasture growth, such as temperature, precipitation, and soil moisture levels.		
WA0804	Analyse pasture growth data to identify trends and patterns over time, assess the impact of management practices on pasture productivity, and provide reports or recommendations to support decision-making regarding grazing management and forage allocation.		
	Supporting Evidence	Date	Signature
SE0101	Written feedback and evaluations provided by mentors or supervisors regarding the accuracy, completeness, and effectiveness of learners' pasture assessment, data recording, analysis, and reporting efforts.		
WM-01-WE09	Assist in adjusting grazing rotations based on forage availability and animal requirements.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0901	Assist in assessing forage availability and quality in grazing areas through visual inspection, forage sampling, and utilization monitoring to determine the suitability of paddocks for grazing.		
WA0902	Evaluate the nutritional requirements and condition of livestock based on factors such as age, weight, stage of production, and health status to inform grazing rotation adjustments.		
WA0903	Assist in planning and adjusting grazing rotations based on forage availability and animal requirements, considering factors such as pasture growth rates, stocking densities, and desired rest periods for paddocks.		
WA0904	Participate in monitoring the effectiveness of grazing rotations, observing livestock behaviour, pasture utilization, and forage regrowth rates, and providing feedback to support ongoing adjustments to grazing management practices		
	Supporting Evidence		
SE0901	Documentary evidence signed by the mentor/supervisor on learner participation in assessing forage, nutritional requirements, planning grazing rotations, and grazing monitoring.		

WM01-WE10	Assist in the collection and storage of crop residues for animal feed.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA1001	Assist in coordinating the collection of crop residues from fields, including scheduling harvesting activities, coordinating equipment and personnel, and ensuring compliance with safety and environmental regulations.		
WA1002	Assess the quality of collected crop residues for use as animal feed, including visual inspection for signs of mould, moisture content measurement, and sampling for nutrient analysis.		
WA1003	Participate in the storage of collected crop residues, including selecting appropriate storage facilities, implementing storage techniques to preserve quality, and monitoring storage conditions to prevent spoilage and maintain feed integrity.		
WA1004	Assist in maintaining records related to the collection and storage of crop residues, including documentation of quantities harvested, storage locations, quality assessments, and any treatments applied to preserve feed quality.		
	Supporting Evidence	Date	Signature
SE1001	Written feedback and evaluations provided by supervisors or mentors regarding the learner's performance in assisting with harvesting, crop residue collection and storage tasks, highlighting areas of strength and areas for improvement in carrying out assigned responsibilities.		
WM-01-WE11	Implementation of cover cropping strategies to improve soil health and provide forage for livestock		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WE1101	Participate in the planning and selection of cover crop species, considering factors such as soil health goals, crop rotation plans, and livestock forage needs.		
WE1102	Assist in the establishment of cover crops, including seedbed preparation, seeding methods (e.g., broadcasting, drilling), and monitoring initial growth stages to ensure successful establishment.		

WE1103	Participate in monitoring soil health indicators, such as soil moisture levels, nutrient content, and microbial activity, to assess the impact of cover cropping strategies on soil fertility and structure.		
WE1104	Assist in integrating cover crops into livestock management practices, including grazing management strategies, forage utilization monitoring, and assessing the nutritional benefits of cover crops for livestock diets.		
	Supporting Evidence		
SE1101	Documentary evidence signed by the mentor/supervisor on learner participation in planning and selection of cover crops, preparing cover crops, monitoring soil health and livestock grazing strategies.		

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-WM-02	Utilization of Natural Resources in Crop and Livestock Farming	5	10	Contact

WM02-WE01	Allocation of resources such as land, water, nutrients, and labour between crop and livestock enterprises, considering factors such as availability, cost-effectiveness, and environmental impact.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0101	Assessing the availability and quality of resources required for crop and livestock enterprises.		
WA0102	Engage in planning and decision-making processes to allocate resources between crop and livestock enterprises.		
WA0103	Assist in implementing resource allocation plans and monitoring their effectiveness over time, collecting data on crop and livestock performance, resource usage, production costs, and environmental outcomes to inform ongoing decision-making and adjustments.		
	Supporting Evidence	Date	Signature

SE0101	Written reports from the supervisor /mentor on the learner involvement in resource assessment, planning, budget planning and cost analysis and return on investment for the farm.		
WM-02-WE02	Implement resource management practices, including crop rotation, cover cropping, integrated pest management, and rotational grazing, to maximize yields, minimize input costs, and reduce environmental degradation.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0201	Participate in planning crop rotation schedules.		
WA0202	Assist in selecting cover crop species, establishing cover crops in fallow fields or intercropped with cash crops, and managing cover crops to improve soil fertility, suppress weeds, reduce erosion, and provide forage for livestock, contributing to sustainable crop production systems.		
WA0203	Engage in IPM strategies, including monitoring pest populations, implementing cultural and biological control methods (e.g., crop diversification, habitat manipulation), and using targeted pesticide applications as a last resort.		
WA0204	Participate in planning and implementing rotational grazing systems for livestock, including paddock design, grazing rotations, stocking densities, and pasture rest periods, to optimize forage utilization, improve animal health and performance, and enhance soil health and biodiversity on grazing lands.		
	Supporting Evidence		
SE0201	Documentary evidence signed by the mentor/supervisor, confirming learner involvement in crop rotation schedules, cover crop establishment, integrated pest management and rotational grazing plans.		
WM02-WE03	Explore the interdependence between crop and livestock systems		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0301	Analyse integrated farming systems between crop and livestock components, considering factors such as nutrient cycling, energy flows, and resource utilization efficiencies.		

WA0302	Participate in developing nutrient management plans that optimize the use of organic fertilizers, manure, and crop residues from livestock operations to meet the fertility needs of crops, minimize nutrient runoff, and enhance soil health.		
WA0303	Explore strategies for integrating crop and livestock enterprises, such as rotational grazing, agroforestry, and mixed cropping systems, to maximize resource utilization, improve ecosystem services, and enhance farm productivity and sustainability.		
WA0304	Examine the value chains connecting crop and livestock products, including feed inputs, animal outputs, and by-products, to identify opportunities for synergies, value addition, and diversification within integrated farming systems.		
	Supporting Evidence	Date	Signature
SE0301	Documentary evidence signed by the mentor/supervisor on learner participation in Assessments reports of nutrient flows, Nutrient management plans, Records of strategies explored and implemented by learners to integrate crop and livestock.		

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-WM-03	Management of Integrated Pest and Disease Practices and Sustainable Strategies for Crops and Livestock Health.	5	10	Contact

WM03- WE01	Identifying common pests and diseases affecting crops and livestock, including visual inspection		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0101	Conduct visual inspections of crops and livestock to identify signs of common pests and diseases.		
WA0102	Implement appropriate control measures upon detecting pests or diseases, such as quarantine protocols or treatment plans.		

WA0103	Monitor and record instances of pest or disease outbreaks to track patterns and inform future prevention strategies.		
WA0104	Attend to biosecurity protocols such as restricted access zones, disinfection procedures, and isolation of sick animals		
	Supporting Evidence	Date	Signature
SE0101	Documentary evidence signed by the mentor/supervisor on learner participation in visual identification of crops and livestock, quarantine protocols, outbreaks of pests and diseases and attending to Biosecurity protocols.		
WM-03-WE02	Participate in regular monitoring and scouting activities to assess pest and disease pressure in crop and livestock populations.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0201	Engage in regular field monitoring and scouting activities to assess the presence and severity of pests and diseases in crop and livestock populations.		
WA0202	Utilize appropriate monitoring tools and techniques, such as traps, visual surveys, and diagnostic tests, to accurately assess pest and disease pressure.		
WA0203	Record and analyse data collected during monitoring activities to identify trends, patterns, and potential risks to crop and livestock health.		
	Supporting Evidence		
SE0201	Documentary evidence signed by the mentor/supervisor on learner participation in field monitoring and scouting activities, using monitoring techniques and recorded monitoring activities.		
WM03-WE03	Attend to biosecurity protocols such as restricted access zones, disinfection procedures, and isolation of sick animals.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0301	Adhere to biosecurity protocols by following procedures for accessing restricted zones within the workplace, including obtaining necessary permissions and using designated entry points.		

WA0302	Implement disinfection procedures as instructed, ensuring thorough cleaning and sanitization of equipment, vehicles, and personal protective gear to prevent the spread of pathogens		
WA0303	Identify and isolate sick animals promptly, segregating them from healthy populations to minimize the risk of disease transmission and facilitate appropriate veterinary care.		
	Supporting Evidence	Date	Signature
SE0101	Documentary evidence signed by the mentor/supervisor on learner participation in adhering to standard operating procedures, biosecurity protocols, and health and safety requirements.		
WM-03-WE04	Use personal protective equipment to ensure safety and minimize environmental impact.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0401	Properly wear and utilize personal protective equipment (PPE) such as gloves, masks, goggles, or respirators as required by workplace safety protocols		
WA0402	Regularly inspect and maintain PPE to ensure it remains in good condition and provides effective protection against workplace hazards.		
WA0403	Follow established procedures for the safe removal and disposal of PPE, taking care to minimize environmental impact through proper waste management practices.		
	Supporting Evidence		
SE0401	Documentary evidence signed by the mentor/supervisor on learner participation in adhering to standard operating procedures, biosecurity protocols, and health and safety requirements.		
WM03-WE05	Exposed to the principles and practices of IPM, which involve the coordinated use of multiple pest management strategies		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0501	Employing a combination of cultural, biological, physical, and chemical control methods to eliminate pest populations.		

WA0502	Implement IPM strategies in agricultural settings, including identifying pest thresholds, monitoring techniques, and selecting appropriate control measures based on ecological and economic considerations		
WA0503	Implementing IPM practices, such as crop rotation, habitat modification, biological control (e.g., introducing natural predators), and judicious use of pesticides, under the guidance of experienced professionals.		
	Supporting Evidence	Date	Signature
SE0501	Documentary evidence signed by the mentor/supervisor on learner participation in implementing IPM strategies and practices using IPM manuals and guidelines		
WM-03-WE06	Disease prevention and management strategies in crops and livestock, including sanitation practices, vaccination programs, quarantine measures		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0601	Cleaning and disinfection of equipment, facilities, and animal housing areas to minimize the spread of pathogens.		
WA0602	Vaccine administration, record-keeping, and monitoring vaccine efficacy to bolster immunity and prevent disease outbreaks in crops and livestock populations.		
WA0603	Identifying and isolating potentially diseased individuals or contaminated materials to prevent the introduction and spread of pathogens within crop and livestock populations.		
	Supporting Evidence		
SE0601	Documentary evidence signed by the mentor/supervisor on learner participation in following sanitation, vaccination, Quarantine guidelines and following standard operating procedures stipulated on procedures.		

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-WM-04	Determination of Quality and Market	5	5	Contact

	Readiness of Crops and Livestock			
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WM04-WE01	Participate in a planning meeting to schedule harvest activities based on crop maturity, weather forecasts, and market demand.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0101	Engage in planning meetings to discuss and coordinate harvest activities		
WA0102	Develop a harvest schedule that maximizes yield quality and quantity while minimizing risks associated with adverse weather conditions.		
WA0103	Utilize relevant tools and resources, such as crop maturity models, weather forecasting data, and market analysis reports, to inform decision-making		
	Supporting Evidence	Date	Signature
SE0101	Documentary evidence signed by the mentor/supervisor on learner participation in planning meetings, planning for harvesting, using relevant data sources eg, weather forecasts, and digital tools.		
WM-04-WE02	Observe and assist in monitoring crop quality, equipment performance, and safety measures.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0201	Observe and assist in monitoring crop quality through visual inspections, sampling, and quality control procedures.		
WA0202	Participate in equipment maintenance checks and performance assessments.		
WA0203	Wear appropriate personal protective equipment (PPE), following equipment operating procedures, and identifying and mitigating potential hazards in the workplace.		
	Supporting Evidence		
SE0201	Documentary evidence signed by the mentor/supervisor on learner participation in monitoring crop quality, checking of equipment and adhering to safety procedures and protocols.		

WM04- WE03	Sort and clean harvested crops according to size, shape, and quality standards.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0301	Participate in sorting harvested crops by size, shape, and quality standards, following established procedures and guidelines.		
WA0302	Assist in cleaning harvested crops to remove debris, dirt, and damaged produce, ensuring compliance with food safety and quality standards.		
WA0303	Use sorting and cleaning equipment and safely, under the supervision of experienced personnel.		
	Supporting Evidence	Date	Signature
SE0101	Documentary evidence signed by the mentor/supervisor on learner participation in sorting harvested crops, cleaning crops, using cleaning equipment safely.		
WM04- WE04:	Assist in packaging crops in appropriate containers, ensuring proper labelling and storage conditions.		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0401	Package crops in suitable containers, ensuring they are correctly filled, sealed, and labelled according to established standards and requirements.		
WA0402	Assist in monitoring storage conditions, such as temperature, humidity, and ventilation, to maintain crop quality and prevent spoilage during storage.		
WA0403	Handle packaging equipment safely under the supervision of experienced personnel, following proper operating procedures and safety protocols.		
WA0404	Maintain storage areas, including stacking containers, arranging inventory, and keeping records of packaged crops for inventory management purposes.		
	Supporting Evidence		
SE0401	Documentary evidence signed by the mentor/supervisor on learner participation in packaging crops in suitable containers, storage conditions, handling packing equipment safely and maintaining storage containers		

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
613101-000-00-WM-05	Management of Livestock Husbandry and Health for Optimal Production and Well-being	5	5	Contact

WM05-WE01	Animal Husbandry Practices		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0101	Feed Livestock		
WA0102	Handle Livestock		
WA0103	Implement housing for Livestock		
	Supporting Evidence	Date	Signature
SE0101	Documentary evidence signed by the mentor/supervisor on learner participation in livestock feeding procedures, livestock safe handling, and livestock housing activities.		
WM-05-WE02	Livestock health management		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0201	Identifying common livestock diseases, symptoms and signs of illness.		
WA0202	Implement vaccination schedules, parasites control		
WA0203	Implement biosecurity protocols		
WA0204	Administering medication, wound care,		
WA0205	Recording keeping of health records		
	Supporting Evidence		
SE0201	Documentary evidence signed by the mentor/supervisor on learner participation in livestock monitoring procedures, administering types of treatments for livestock.		
WM05-WE03	Livestock monitoring		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0301	Observing livestock for early detection of illness		
WA0302	Record keeping on livestock performance		
	Supporting Evidence	Date	Signature

SE0301	Documentary evidence signed by the mentor/supervisor on learner participation in livestock monitoring procedures, and reading of livestock performance.		
MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS
613101-000-00-WM-06	Practice Soil preparation, planting/sowing, plant nutrition, irrigation, pest and disease control of crops	5	5
WM06-WE01	Prepare soil for crops planting		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0101	Assess soil conditions (texture, structure, pH, and fertility) through observation and soil testing.		
WA0102	Operate basic soil preparation equipment (e.g., plows, harrows, and tillers) for different soil types.		
WA0103	Apply soil amendments such as lime, compost, and organic matter to improve soil fertility.		
WA0104	Implement soil conservation techniques (e.g., contour plowing, cover cropping) to prevent erosion and degradation.		
WA0105	Prepare seedbeds to ensure proper aeration, drainage, and nutrient availability		
	Supporting Evidence	Date	Signature
SE0101	Workplace Logbook or Supervisor's Report		
SE0102	Soil Analysis Report		
SE0103	Equipment Usage Records		
SE0104	Seedbed Preparation Checklist and Visual Evidence		
WM06-WE02	Plant /Sow crops		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0201	Select appropriate crop varieties based on climatic conditions, soil type.		
WA0202	Prepare seedbeds or planting holes according to crop requirements.		

WA0203	Apply correct sowing methods (broadcasting, drilling, transplanting) for different crops.		
WA0204	Implement optimal planting depth and spacing to ensure healthy crop establishment.		
WA0205	Apply row planting, intercropping, and companion planting.		
	Supporting Evidence	Date	Signature
SE0201	Workplace Logbook or Supervisor's Report		
SE0202	Crop Selection Report		
SE0203	Seedbed or Planting Hole Preparation Records		
SE0204	Sowing and Planting Method Records		
SE0205	Planting Depth and Spacing Documentation		
SE0206	Row Planting, Intercropping, and Companion Planting report		
SE0207	Growth Monitoring Report		
WM06-WE03	Apply Plant Nutrition		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0301	Identify nutrient deficiencies and recommend corrective measures.		
WA0302	Select and apply appropriate fertilizers (organic, inorganic, or slow release) based on crop needs.		
WA0303	Implement proper fertilizer application techniques (broadcasting, fertigation, foliar feeding) to maximize nutrient uptake.		
WA0304	Monitor crop growth and adjust nutrient application accordingly.		
WA0305	Prevent nutrient loss through leaching, runoff, and volatilization by applying best management practices.		
	Supporting Evidence	Date	Signature
SE0301	Workplace Logbook or Supervisor's Report		
SE0302	Fertilizer Selection and Application Record		

SE0303	Crop Growth Monitoring Report		
SE0304	Records of soil conservation techniques		
WM06-WE04	Implement Irrigation methods		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0401	Identify irrigation methods based on crop type and field conditions.		
WA0402	Install and maintain irrigation equipment for water distribution.		
WA0403	Monitor soil moisture levels using tools		
WA0404	Implement water conservation strategies		
WA0405	Adjust irrigation based on crop growth stages and environmental factors.		
	Supporting Evidence	Date	Signature
SE0401	Workplace Logbook or Supervisor's Report		
SE0402	Irrigation maintenance report		
SE0403	Soil monitoring report		
WM06-WE05	Control Pests and Diseases		
WA0501	Identify common pests, diseases, and weeds affecting crops in the field.		
WA0502	Monitor crop health using scouting techniques and record observations		
WA0503	Apply integrated pest management (IPM) strategies, including biological, mechanical, and chemical controls.		
WA0504	Apply pesticides and herbicides according to recommended guidelines.		
WA0505	Implement disease prevention measures such as crop rotation, resistant varieties, and sanitation.		
	Supporting Evidence	Date	Signature
SE0501	Workplace Logbook or Supervisor's Report		
SE0502	Irrigation Method Selection Report		

SE0503	Irrigation System Installation and Maintenance Records		
SE0504	Soil Moisture Monitoring Record		
SE0505	Documentation of conservation strategies implemented		
SE0506	Irrigation Adjustment Report		
	Contextualised Workplace Knowledge		
1	Soil for Crop Planting processes		
2	Planting/Sowing processes		
3	Plant Nutrition requirements		
4	Irrigation methods and processes		
5	Pest and Disease Control and diseases management		
MODULE CODE MODULE TITLE NQF LEVEL CREDITS MODE OF DELIVERY			
613101-000-00-WM-06 Exploring markets and establishing local relationships 5 Contact			
WM06- WE01	Identify potential buyers		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0101	Conducting interviews with local market		
WA0102	interact with local buyers such as farmers market, grocery store owners, restaurants and food distributors.		
	Supporting Evidence		
SE0101	Documentary evidence signed by the mentor/supervisor on learner interviews at local market, interacting with local buyers.		
WM06-WE02	Key stakeholder networking		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0201	Identify and categories key stakeholder relevant to the farm		
	Supporting Evidence	Date	Signature

SE0201	Documentary evidence signed by the mentor/supervisor on learner interacting with local market events, stakeholders identified and reports		
WM06-WE03	Market diversification		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0301	Identify different market channels available in the area.		
	Supporting Evidence		
SE0301	Documentary evidence signed by the mentor/supervisor on learner interacting with Reports on market trends, consumer preferences, opportunities for diversification.		
WM06- WE04:	Product Quality		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0401	Product grading and visual inspections		
WA0402	Customer feedback on products		
	Supporting Evidence	Date	Signature
SE0101	Documentary evidence signed by the mentor/supervisor on learner interacting with quality control on product inspection, assessment of products and quality standard requirement adherence.		
MODULE CODE MODULE TITLE NQF LEVEL CREDITS MODE OF DELIVERY 613101-000-00-WM-07, Climate-Responsive Practices to crop and livestock management, NQF Level 5, Credits 5, Contact			
WM07- WE01	Implement climate -responsive practices		
	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0101	Observe farm climate responsive practices		
	Supporting Evidence		
SE0101	Documentary evidence signed by the mentor/supervisor on learner interacting data collection on crop yields, soil moisture, livestock performance		
WM07-WE02	Use weather forecasting tools, climate data;		

	SCOPE OF WORK EXPERIENCE	DATE	SIGNATURE
WA0101	Analyse weather forecasts to anticipate weather conditions		
WA0102	Identify historical climate data relevant to the area		
WA0103	Set up weather monitoring instruments on the farm		
	SUPPORTING EVIDENCE	DATE	SIGNATURE
SE0101	Documentary evidence signed by the mentor/supervisor on learner analysing weather forecast report, temperature, rainfall patterns and seasonal variations		