



FEDERAL MINISTRY OF EDUCATION

National Skills Qualifications FOR ANIMAL HUSBANDRY LIVESTOCK FARMING LEVEL 1, 2 & 3 February, 2025

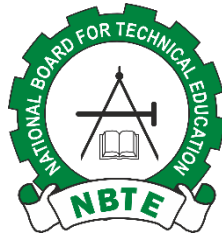


Innovation Development
and Effectiveness in the
Acquisition of Skills
(IDEAS) Project

Funded by IDEAS project

National Board for Technical Education

Plot B, Bida Road, P.M.B. 2239, Kaduna, Nigeria



NATIONAL SKILLS QUALIFICATION

LIVESTOCK FARMING

IN

ANIMAL HUSBANDRY

LEVEL 1-3

FEBRUARY, 2025

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NATIONAL SKILLS QUALIFICATION

LIVESTOCK FARMING:

ANIMAL HUSBANDRY

LEVEL 1

FEBRUARY, 2025

OVERVIEW

This qualification is for those interested in developing a career in livestock farming for the award of National Skills Qualifications (NSQ). It is aimed at producing a livestock farmer Assistant at NSQ level 1, Intermediate livestock farmer at NSQ level 2 and Master livestock at NSQ level 3 with the competencies to read and interpret in the farming environment.

PURPOSE OF THE QUALIFICATION

This qualification is designed for individuals interested in pursuing a career in livestock farming. It provides learners with the fundamental knowledge and skills required to perform basic farming tasks, including farm, animal keeping and livestock product.

QUALIFICATION OBJECTIVES

Upon completion of the level, the individual will be able to;

1. Assist as farm hand in a ruminant farm
2. Communicate and assist in mixing feed and feeding ruminant animals.
3. Assist in breeding ruminant animals
4. Assist in milk and meat handling
5. Manage housing and equipment in livestock farm/ facility

Mandatory Units

S/No /Unit No	Reference Number	NOS Title	Credit Value	Guided Learning Hours	Remark
1	AHP/LSF/001/L1	Work safety in livestock Farm Environment	2	20	NSQ Level 1
2	AHP/LSF/002/L1	Effective communication in livestock Farm Environment	2	20	NSQ Level 1
3	AHP/LSF/003/L1	Team Work in livestock Farm Practice	2	20	NSQ Level 1
4	AHP/LSF/004/L1	Cattle, sheep and goats production	3	30	NSQ Level 1
5	AHP/LSF/005/L1	Housing and equipment in cattle, sheep and goats production	3	30	NSQ Level 1
6	AHP/LSF/006/L1	Feed production and utilization	3	30	NSQ Level 1
7	AHP/LSF/007/L1	Selection criteria for breeding in cattle, sheep and goats	3	30	NSQ Level 1
8	AHP/LSF/009/L1	Principles of reproduction in cattle, sheep and goats	3	30	NSQ Level 1
	TOTAL		21	210	

Optional Units

S/No /Unit No	Reference Number	NOS Title	Credit Value	Guided Learning Hours	Remark
10	AHP/LSF/009/L1	Meat and milk handling	3	30	NSQ Level 1
11	AHP/LSF/011/L1	Processing and marketing of livestock products	3	30	NSQ Level 1
	TOTAL		6	60	

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 1 LIVESTOCK FARMING**

Unit 1: Work safely on livestock Farm Environment

Unit Reference Number: AHP/LSF/001/L1

NSQ Level: 1

Credit Value: 2

Guided Learning Hours: 20

Unit Purpose: This unit is designed to equip the learner with knowledge and skills to observe health and safety precautions and avoidance of environmental hazards associated with working on a livestock farm.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective journal (RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)

UNIT 01: Work safely on a livestock Farm

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Observe safety precaution on a livestock farm.	1.1	Explain safe work practices as obtained along the livestock production value chain.		
	1.2	Identify safety signs and symbols on livestock farms		
	1.3	Carryout safe work practice and instructions in livestock farms		
	1.4	Operate in accordance with health and safety practices in a livestock farm		
LO 2: Comply with safety standards on livestock Farm.	2.1	Identify work environment hazards		
	2.2	State the types of hazards associated with livestock farming		
	2.3	Discuss risks associated with livestock farming		
	2.3	State safety standards on livestock farms and processing facilities		
	2.4	Use safety tools, materials and equipment in livestock processing facilities		
LO 3: Apply personal protective equipment (PPE) in livestock farming and processing facilities	3.1	Identify the types of PPEs required for livestock processing plants		
	3.2	Select appropriate PPEs for livestock processing farming		
	3.3	Use appropriate PPEs for livestock product processing		
	3.4	Use appropriate PPEs for livestock farming		
	3.4	Maintain PPEs before or after use		
LO 4: Respond to accidents/injury in livestock processing plants	4.1	Identify first aid facility		
	4.2	Report incidences of accident/injury/ to the appropriate supervisor		
	4.3	Respond to supervisor`s		

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
		given instructions		
	4.4	Use basic dressing materials		
LO 5: Apply safe work habit and clean work environment in livestock processing plants	5.1	Use safe access and exit routes in the work environment		
	5.2	Identify appropriate working tools, materials and equipment		
	5.3	Use tools and equipment safely in accordance with the supervisors instructions		
	5.4	Return all tools, equipment and unused materials for appropriate storage		
	5.5	Carry out general housekeeping of work environment		
	5.6	Dispose all wastes appropriately to designated waste facilities		
LO 6: Demonstrate the skills of lifting, loading/offloading and stacking of materials in livestock processing facilities	6.1	Identify lifting and stacking techniques		
	6.2	Demonstrate lifting techniques in loading and offloading of materials without assistance		
	6.3	Demonstrate correct lifting and loading techniques with mechanical assistance		
	6.4	Carryout stacking of materials correctly		

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 1 LIVESTOCK FARMING**

Unit 2: Effective Communication in livestock Farm Environment**Unit Reference Number: AHP/LSF/002/L1****NSQ Level: 1****Credit Value: 2****Guided Learning Hours: 20**

Unit Purpose: This unit is designed to equip the learner with knowledge with communication techniques in livestock farming.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Practice (RP)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)

UNIT 02: Effective communication in livestock farm environment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page
LO 1: Apply the use of a non-complex communication system in a work environment	1.1	Use a verbal means to pass on necessary information			
	1.2	Use non-verbal means to convey necessary information e.g. ➤ body language ➤ signs			
	1.3	Interpret symbols and signs appropriately in livestock farming and processing facilities			
LO 2: Source for information on a livestock work environment	2.1	Identify the source of information in the work environment			
	2.2	Use the different information flow systems in a work environment			
	2.3	Use information gathered to handle challenges appropriately in a work place			
	2.4	Report findings in accordance with laid down procedures in the work environment using materials like ➤ Cards, ➤ Flip Charts ➤ Stick notes			
	2.5	Use simple communication gadget like; ➤ mobile phones ➤ table phones ➤ walkie -talkie ➤ speakers			
LO 3: Apply various means of communication in a livestock work environment	3.1	Locate the various communication equipment in the work environment			
	3.2	Use effectively the various communication equipment in a work environment			
	3.3	Pass information effectively to the right personnel			
	3.4	Carryout instructions in line with ethics of the work environment			

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled):	Date:
EQA Signature (if sampled):	Date:

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 1 LIVESTOCK FIRMING**

UNIT 3: TEAMWORK IN LIVESTOCK FARM PRACTICE**Unit Reference Number: AHP/LSF/003/L1****NSQ Level: 1****Credit Value: 2****Guided Learning Hours: 20****Unit Purpose:**

This unit is designed to equip the learner with knowledge and skills, required to develop team spirit and positive working relationship with colleagues.

Unit Assessment requirement

Assessment of this unit must be at a real practical work environment; simulation is not allowed unless where indicated.

Unit assessment requirements/evidence requirements:

1. Direct Observation (DO)
2. Work Product (WP)
3. Professional Discussion
4. Questions and Answers (Q&A)
5. Reflective Journal (RJ)
6. Assignments (ASS)
7. Witness statement (WS)

Unit 3: Teamwork in livestock farm practice

LO (Learning outcome)		Criteria:-	Evidence Type				Evidence Ref Page number			
LO 1 Demonstrate the skills of Positive working relationship with colleagues	1.1	Explain need for developing positive working relationship with colleagues								
	1.2	Recognize the importance of relating with other people in a way that makes them feel valued and respected								
	1.3	Assist team members when required.								
	1.4	Report to the appropriate personnel when request for assistance fall outside area of responsibility.								
	1.5	Communicate information to colleagues about individual work that may affect team work.								
LO 2 Take responsibility within the team										
	2.1	Recognize own role and responsibilities within a team								
	2.2	Perform individual tasks in line with the team's rules and regulations.								
	2.3	Participate effectively in teamwork.								
LO.3 Comply with policy of organisation										
	3.1	Explain organizational code of conduct								
	3.2	Work in line with organizational standard								
	3.3	Use organizational code of practice								
	3.4	Adhere strictly to instructions given by the Management								

Learners Signature:**Date:****Assessors Signature:****Date:****IQA Signature (if sampled):****Date:****EQA Signature (if sampled):****Date:**

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 1 LIVESTOCK FARMING**

Unit 4: Cattle, sheep and goat production

Unit Reference Number: AHP/LSF/004/L1

NSQ Level: 1

Credit Value: 3

Guided Learning Hours: 30

Unit Purpose: This unit is designed to provide the learner with knowledge and skills in cattle, sheep and goat production.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Work Product (WP)
5. Recognition of Prior Learning (RPL)
6. Assignments (ASS)
7. Reflective Journal (RJ)

UNIT 04: Cattle, sheep and goat production

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Evaluate the history and development of cattle, sheep and goat production	1.1	State the history and development of cattle, sheep and goat production in Nigeria								
	1.2	Explain factors that affect animal husbandry e.g ➤ Feed ➤ Labour ➤ Environment ➤ Diseases								
	1.3	Describe the various terminologies used in animal husbandry. e.g ➤ Bovine ➤ Caprine ➤ Ovine								
	1.4	Use a map of Nigeria to identify major cattle, sheep and goats producing areas.								
	1.5	Use the same map, locate cattle, sheep and goat breeds found in those areas. e.g ➤ sokoto gudali ➤ west african dwarf goats ➤ sahelian								
LO 2: Demonstrate the differences between species, breeds and their characteristics of cattle, sheep and goats.	2.1	Identify the different breeds of cattle, sheep and goats								
	2.2	Identify breeds of cattle with their physical characteristics								
	2.3	Identify breeds of sheep with their physical characteristics								
	2.4	Identify breeds of goats with their physical characteristics								
LO 3: Establish the employment characteristics in cattle, sheep and goat production	3.1	Outline the various career opportunities in cattle, sheep and goat production								
	2.2	Explain the value chain of cattle, sheep and goat production								
	2.3	List the key role players in cattle, sheep and goat production e.g								

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
		<ul style="list-style-type: none"> ➤ cattle, sheep and goats producers ➤ drug and feed manufacturers ➤ management service providers 								
	2.4	Describe the main forms of marketing used in cattle, sheep and goat production e.g <ul style="list-style-type: none"> ➤ Live auction ➤ Direct to consumer sales ➤ Online market places 								
Learners Signature:										
Assessors Signature:										
IQA Signature (if sampled)										
EQA Signature (if sampled)										

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 1 LIVESTOCK FARMING**

Unit 5: Housing and equipment in cattle, sheep and goats production.

Unit Reference Number: AHP/LSF/005/L1

NSQ Level: 1

Credit Value: 3

Guided Learning Hours: 30

Unit Purpose: This unit is designed to equip the learner with the techniques in housing and equipment in cattle, sheep and goat production

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Work Product (WP)
5. Recognition of Prior Learning (RPL)
6. Assignments (ASS)
7. Reflective Journal (RJ)

UNIT 05: HOUSING AND EQUIPMENT IN CATTLE, SHEEP AND GOATS Production

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type				Evidence Ref. Page No.			
The learner will:		The learner can:								
LO 1: Evaluate the principles of housing and equipment in cattle, sheep and goats	1.1	State the types of housing required for cattle, sheep and goats e.g ➤ Loose housing / framed pen (goats and sheep) ➤ Loose housing/ stall barns (cattle)								
	1.2	Identify the materials needed for the construction of each house e.g ➤ Building materials ➤ Fences ➤ Beddings								
	1.3	Identify the rearing equipment needed within each house e.g ➤ Feeding troughs ➤ Buckets ➤ Water troughs								
	1.4	Explain the use of the rearing equipment needed within each house								
	1.5	Carryout good management practices in cattle, sheep and goats housing								
LO 2: Demonstrate the methods of feeding cattle, sheep and goats	2.1	Identify the sources of energy raw materials used in producing feed for cattle, sheep and goats e.g ➤ Maize ➤ Wheat ➤ Rice ➤ Soghum								
	2.2	Identify sources of protein raw materials used in producing feed for cattle, sheep and goats e.g ➤ Soya bean ➤ Fish or bone meal ➤ Plant protein								
	2.3	Identify the sources of vitamins and minerals used in producing feed for cattle, sheep and goats								
	2.4	Locate the sources of roughages used in feeding cattle, sheep and goats								
	2.5	Demonstrate the process of feeding young cattle, sheep and goats								

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Ref. Page No.
The learner will:		The learner can:		
	2.6	Carry out the feeding of cattle, sheep and goats		
L03: Understand the principles of health management of cattle, sheep and goats	3.1	Identify the basic health challenges of cattle, sheep and goats e.g <ul style="list-style-type: none"> ➤ Diseases ➤ Antimicrobial resistance (AMR) ➤ Air pollution 		
	3.2	Demonstrate the steps to take to make cattle, sheep and goats healthy e.g <ul style="list-style-type: none"> ➤ Biosecurity in farms and animal facilities like fencing, monitoring vaccination 		
	3.3	Identify sick animals in the herd of cattle, sheep and goats by their; <ul style="list-style-type: none"> ➤ Behavior ➤ Appearance ➤ Other functions e.g tumors, difficulty in urination 		
	3.4	Explain vaccination schedule in cattle, sheep and goats for diseases such as foot and mouth disease in cattle, PPR in goats and sheep		
	3.5	Carryout bio security measures in cattle, sheep and goats		
Learners Signature:		Date:		
Assessors Signature:		Date:		
IQA Signature (if sampled):		Date:		
AQA Signature (if sampled):		Date:		

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 1 LIVESTOCK FARMING**

Unit 6: Feed production and utilization**Unit Reference Number: AHP/LSF/006/L1****NSQ Level: 1****Credit Value: 3****Guided Learning Hours: 30**

Unit Purpose: This unit is designed to equip the learner with the knowledge of feed and feed utilization by cattle, sheep and goats.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Work Product (WP)
5. Recognition of Prior Learning (RPL)
6. Assignments (ASS)
7. Reflective Journal (RJ)

UNIT 06: FEED PRODUCTION AND UTILIZATION

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Ref. No.	Page No.
The learner will:		The learner can:			
LO 1: Understand feed production for ruminants	1.1	Identify different forms of feeds required by cattle, sheep and goats <ul style="list-style-type: none"> • Pasture • Hay and silage • Roughages • Concentrates • Minerals (Salt lick) 			
	1.2	Explain the methods of hay and silage making			
	1.3	Explain the concept of Total Mixed Ration (TMR): A combination of Concentrates, Roughage and Minerals			
LO 2: Understand the method of feed processing, storage and preservation	2.1	Describe the methods of feed processing: <ul style="list-style-type: none"> • Grinding and mixing • Toasting • Mash/ Pellet 			
	2.2	Describe how cattle, sheep and goats' feed is preserved <ul style="list-style-type: none"> - Shade drying - Sun drying 			
	2.3	Explain the storage of cattle, sheep and goats' feed <ul style="list-style-type: none"> - Hay barn - Feed store - Tanks 			
LO 3: Understand the feeding behaviour and water utilization by cattle, sheep and goats.	2.1	Describe the feeding behaviour in cattle, sheep and goats			
	2.2	Identify sources of drinking water for cattle, sheep and goats.			
	2.3	State the importance of feeds and water in cattle, sheep and goat production			
Learners Signature:			Date:		
Assessors Signature:			Date:		
IQA Signature (if sampled)			Date:		
EQA Signature (if sampled)			Date:		

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 1 LIVESTOCK FARMING**

Unit 7: Selection criteria for breeding in cattle, sheep and goats

Unit Reference Number: AHP/LSF/007/L1

NSQ Level: 1

Credit Value: 3

Guided Learning Hours: 30

Unit Purpose: This unit is designed to equip the learner with the skills of selecting cattle, sheep and goats for breeding purpose and enable the learner identify animals on heat.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Work Product (WP)
5. Recognition of Prior Learning (RPL)
6. Assignments (ASS)
7. Reflective Journal (RJ)

UNIT 07: SELECTION CRITERIA FOR BREEDING IN CATTLE, SHEEP AND GOATS

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Ref. No.	Page
The learner will:		The learner can:			
LO 1: Understand the different selection criteria and types in cattle, sheep and goat breeding	1.1	Identify the objectives for selection in cattle, sheep and goats			
	1.2	Identify the different types of selection in cattle, sheep and goats (natural or artificial).			
	1.3	Explain the different methods of selection (artificial) in cattle, sheep and goats			
LO 2: Know the selection criteria in cattle, sheep and goats production	2.1	Identify the selection criteria in cattle, sheep and goats for male <ul style="list-style-type: none"> ➤ Large body size ➤ Sexual aggression in male ➤ Soundness of hind limbs ➤ Fully descended testicles 			
	2.2	Identify the selection criteria in cattle, sheep and goats for female <ul style="list-style-type: none"> ➤ Good body size ➤ Teat placement ➤ Fecundity ➤ Udder texture ➤ moist and enlarged vagina 			
	2.3	Explain behavioral attitude of a good dam			
LO 3: Know Breeding methods in Cattle, Sheep and goats	3.1	Explain the principle of breeding in cattle, sheep and goat Production <ul style="list-style-type: none"> ➤ Cross breeding ➤ Inbreeding 			
	3.2	Describe the benefits and problems associated with inbreeding			
	3.3	Explain benefit of cross breeding and inbreeding			

Learners Signature:**Assessors Signature:****IQA Signature (if sampled):****EQA Signature (if sampled):**

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 1 LIVESTOCK FARMING**

Unit 8: Principles of reproduction in cattle, sheep and goats**Unit Reference Number: AHP/LSF/008/L1****NSQ Level: 1****Credit Value: 3****Guided Learning Hours: 30**

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of reproduction in cattle, sheep and goats.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Work Product (WP)
5. Recognition of Prior Learning (RPL)
6. Assignments.
7. Reflective Journal (RJ)

UNIT 08: Principles of reproduction in cattle, sheep and goats

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Understand heat detection in cattle, sheep and goats	1.1	Describe heat detection in adult female cattle, sheep and goats								
	1.2	State reasons for heat detection in adult female cattle, sheep and goats								
	1.3	Identify heat period in cattle, sheep and goats								
LO 2: Show signs of heat in cattle, sheep and goats	2.1	Describe the signs of heat in cattle, sheep and goats								
	2.2	Explain the AM/PM (morning/evening) rule in heat detection								
	2.3	Identify the gadgets use for heat detection								
LO 3: Understand the processes of reproduction in cattle, sheep and goats	3.1	Describe gestation periods in cattle, sheep and goats								
	3.2	Identify parturition in cattle, sheep and goats								
	3.3	Explain the importance of colostrum to calves, lambs and kids								
	3.4	Identify the weaning ages for cattle sheep and goats								
	3.4	Carryout the weaning practices in cattle, sheep and goats.								

Learners Signature:**Assessors Signature:****IQA Signature (if sampled)****EQA Signature (if sampled)**

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 1 LIVESTOCK FARMING**

Unit 9: Meat and milk handling techniques**Unit Reference Number: AHP/LSF/009/L1****NSQ Level: 1****Credit Value: 3****Guided Learning Hours: 30**

Unit Purpose: This unit is designed to equip the learner with knowledge and skills of handling and processing of meat and milk from cattle, sheep and goats

Unit assessment requirements/evidence requirements:

*Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is not allowed** in this unit and level.*

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Work Product (WP)
5. Recognition of Prior Learning (RPL)
6. Assignments.
7. Reflective Journal (RJ)

UNIT 09: Meat and milk handling techniques

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Ref. No.	Page
The learner will:		The learner can:			
LO 1: Understand meat and milk handling techniques	1.1	Demonstrate meat and milk handling techniques in cattle, sheep and goat production			
	1.2	Identify the equipment used in processing and storage of meat and milk			
	1.3	Carryout cleaning of tools and equipment after use			
LO 2: Understand hygiene in meat and milk handling	2.1	State reasons for hygiene in the meat and milk industry			
	2.2	Explain the hygiene processes while handling meat and milk			
	2.3	Identify hygiene materials needed for handling meat and milk			
LO 3: Understand the preservation and transportation of meat and milk	3.1	Explain method of milk preservation ➤ Refrigeration ➤ Canning ➤ Turning it to powder			
	3.2	Explain method of preservation of meat ➤ Refrigeration ➤ Salting ➤ Canning ➤ Roasting/Smoking			
	3.3	Describe the transportation of processed milk			
	3.4	Describe the transportation of processed meat using mobile cold rooms			

Learners Signature:**Assessors Signature:****IQA Signature (if sampled)****EQA Signature (if sampled):**

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 1 LIVESTOCK FARMING**

Unit 10: Processing and marketing of livestock products**Unit Reference Number: AHP/LSF/0010/L1****NSQ Level: 1****Credit Value: 3****Guided Learning Hours: 30**

Unit Purpose: This unit is designed to equip the learner with knowledge and skills of processing and marketing methods of cattle, sheep and goat products

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Work Product (WP)
5. Recognition of Prior Learning (RPL)
6. Assignments (Ass)
7. Reflective journal (RJ)

UNIT 10: Processing and marketing of livestock products

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Ref. Page No.
The learner will:		The learner can:		
LO 1: Understand livestock products processing methods	1.1	Identify various cattle, sheep and goat marketable edible products such as: ➤ Meat (Suya, balangu, ragadada, tsire, Kilishi, dambu) ➤ Cheese ➤ Yoghurt		
	1.2	Identify various cattle, sheep and goat marketable non-edible products such as: ➤ Hide and skin ➤ Horns and hooves ➤ Manure ➤ Wool ➤ Bones		
	1.3	Describe the utilisation of horns, hooves and bones		
	1.4	Describe the utilisation of manure		
	1.5	Describe the use of wool and bones		
LO 2: Understand the marketing of livestock products	2.1	Explain the marketing strategies of different forms of milk		
	2.2	Explain the marketing strategies for cheese and yoghurt		
	2.3	Explain the marketing strategies of different forms of meat		
LO 3: Understand the marketing of livestock by-products	2.1	Explain the marketing strategies for Hides and skin		
	2.2	Explain the marketing strategies for horns and hooves		
	2.3	Explain the marketing strategies for manure		
Learners Signature:			Date:	
Assessors Signature:			Date:	
IQA Signature (if sampled):			Date:	
EQA Signature (if sampled):			Date:	

NATIONAL SKILLS QUALIFICATION

LIVESTOCK FARMING:

ANIMAL HUSBANDRY

LEVEL 2

FEBRUARY, 2025

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 2 IN LIVESTOCK FARMING**

QUALIFICATION PURPOSE:

This qualification is designed to provide learners with the knowledge and skills required to perform farming tasks, such as farming, animal keeping and livestock production

QUALIFICATION OBJECTIVES

Upon completion of the level, the individual will be able to;

1. Work safely in livestock Farm Environment
2. Communicate effectively in livestock Farm
3. Prepare, maintain and monitor livestock farm
4. Use Tools, equipment and materials in livestock farm/facility
5. Apply biosecurity practices in livestock farming
6. Identify common diseases and parasites in livestock

Mandatory Units

S/No /Unit No	Reference Number	NOS Title	Credit Value	Guided Learning Hours	Remark
1	AHP/LSF/001/L2	Work Safety in livestock Farm Environment	2	20	NSQ Level 2
2	AHP/LSF/002/L2	Effective communication in livestock Farm Environment	2	20	NSQ Level 2
3	AHP/LSF/003/L2	Team Work in livestock Farm Practice	2	20	NSQ Level 2
4	AHP/LSF/004/L2	Ruminant production	2	20	NSQ Level 2
5	AHP/LSF/005/L2	Principles of calf, lamb and kid rearing	5	50	NSQ Level 2
6	AHP/LSF/006/L2	Tools, equipment and materials in animal husbandry	5	50	NSQ Level 2
7	AHP/LSF/007/L2	Nutrition in animal husbandry	4	40	NSQ Level 2
8	AHP/LSF/008/L2	Common diseases and parasites of livestock	3	30	NSQ Level 2
9	AHP/LSF/009/L2	Animal welfare in ruminant production	5	50	NSQ Level 2
			30	300	

Optional Units

S/No /Unit No	Reference Number	NOS Title	Credit Value	Guided Learning Hours	Remark
10	AHP/LSF/010/L2	Preparing, maintaining and monitoring of livestock farm	4	40	NSQ Level 2
11	AHP/LSF/011/L2	Biosecurity practices in livestock farming	6	60	NSQ Level 2
			10	100	

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 2 LIVESTOCK FARMING**

Unit 1: Work safety in livestock farm environment

Unit Reference Number: AHP/LSF/001/L2

NSQ Level: 2

Credit Value: 2

Guided Learning Hours: 20

Unit Purpose: This unit is designed to equip the learner on the adherence to health and safety precautions and avoidance of environmental hazards associated with working on a livestock farm.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal (RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments, (ASS)

UNIT 01: Work safety in a livestock farm environment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Work safety in a livestock farm environment	1.1	Explain safe work practices as obtained along the livestock production value chain		
	1.2	Identify safety signs and symbols on livestock farms		
	1.3	Provide correctly, the safety signs and symbols		
	1.4	Demonstrate safe work practices and instructions on livestock farms		
	1.5	Operate in accordance with health and safety practices		
LO 2: Comply with safety standards on livestock Farm.	2.1	Identify work environment hazards		
	2.2	State types of hazards and risks associated with livestock farms		
	2.3	State safety standards on livestock farms and processing facilities		
	2.4	Use safety tools, materials and equipment in livestock processing facilities		
LO 3: Apply personal protective equipment (PPE) in livestock processing facilities	3.1	Identify the types of PPEs required for livestock processing plants		
	3.2	Select appropriate PPE for livestock processing plants		
	3.3	Demonstrate the use of PPE		
	3.4	Maintain PPE before or after use		
LO 4: Response to accidents/injury in livestock processing plants				
	4.1	Locate first aid facility		
	4.2	Use basic dressing materials		
	4.3	Respond to supervisor given instructions		
	4.4	Report incidences of accident/injury to the appropriate supervisor		
LO 5: Apply safe work habit and clean	5.1	Use safe access and exit routes in the work		

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
work environment in livestock processing plants		environment		
	5.2	Identify appropriate working tools, materials and equipment		
	5.3	Use tools and equipment safely in accordance with the supervisor's instructions		
	5.4	Return all tools, equipment and unused materials for appropriate storage		
	5.5	Carry out general housekeeping of work environment		
	5.6	Dispose all wastes appropriately to designated waste facilities		
LO 6: Comply with standards of lifting, loading/offloading and stacking of materials in livestock processing facilities	6.1	Identify lifting and stacking techniques		
	6.2	Demonstrate lifting techniques in loading and offloading of materials without assistance		
	6.3	Demonstrate correct lifting and loading techniques with mechanical assistance		
	6.4	Stack materials correctly		
Learners Signature:			Date:	
Assessors Signature:			Date:	
IQA Signature (if sampled):			Date:	
EQA Signature (if sampled):			Date:	

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 2 LIVESTOCK FARMING**

Unit 2: Effective communication in livestock Farm Environment**Unit Reference Number: AHP/LSF/002/L2****NSQ Level: 2****Credit Value: 2****Guided Learning Hours: 20**

Unit Purpose: This unit is designed to equip the learner with knowledge and skills of communication in livestock farming.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Practice (RP)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)

UNIT 02: Effective communication in livestock farms/environment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page
LO 1: Apply the use of a non-complex communication system in a work environment	1.1	Use a verbal means to pass on necessary information			
	1.2	Use non-verbal means to convey necessary information e.g. ➤ body language, ➤ signs			
	1.3	Interpret symbols and signs appropriately			
LO 2: Source for information on a livestock work environment	2.1	Identify the source of information in the work environment			
	2.2	Relate effectively with the source of information			
	2.3	Use the different information flow systems in a work environment			
	2.4	Use information gathered to avoid challenges in a work situation			
	2.5	Report findings appropriately in accordance with laid down procedures in the work environment i.e. ➤ Cards, ➤ Flip Chart			
	2.6	Use simple communication gadgets like ➤ mobile phones ➤ table phones			
LO 3: Apply various means of communication in a livestock work environment	3.1	Locate the various communication equipment in the work environment			
		Use effectively the various communication equipment in a work environment			
	3.2	Pass information effectively to the right personnel			
	3.3	Obey instructions in line with ethics of the work environment			

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled):	Date:
EQA Signature (if sampled)	Date:

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 2 LIVESTOCK FARMING**

UNIT 3: TEAM WORK IN LIVESTOCK FARM PRACTICE**Unit Reference Number:** AHP/LSF/003/L2**NSQ Level:** 2**Credit Value:** 2**Guided Learning Hours:** 20

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills to develop team spirit and positive working relationship with colleagues.

Unit Assessment requirement

Assessment of this unit must be at a real practical work environment, simulation is not allowed unless where indicated.

Unit assessment requirements/evidence requirements

1. Direct Observation (DO)
2. Work Product (WD)
3. Professional Discussion (PD)
4. Questions and Answers (Q and A)
5. Reflective Journal (RJ)
6. Assignment (Ass)
7. Witness statements (WS)

Unit 3: Team work in livestock farm practice

LO (Learning outcome)		Criteria:-	Evidence Type				Evidence Ref Page number			
LO 1: Positive working relationship with colleagues	1.1	Identify the need for developing positive working relationship with colleagues								
	1.2	Recognize the importance of relating with other people in a way that makes them feel valued and respected								
	1.3	Assist team members when required.								
	1.4	Report to the appropriate personnel when request for assistance fall outside area of responsibility.								
	1.5	Communicate information to colleagues about individual work that may affect team work.								
	2.1	Recognize own role and responsibilities within a team								
	2.2	Perform individual tasks in line with the team's rules and regulations.								
	2.3	Participate effectively in teamwork.								
LO.3: Compliance with policy of organisation										
	3.1	Explain organizational code of conduct								
	3.2	Work in line with organizational standard								
	3.3	Use organizational code of practice								
	3.4	Adhere strictly to instructions given by the Management								

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 2 LIVESTOCK FARMING**

Unit 4: Ruminant production**Unit Reference Number: AHP/LSF/004/L2****NSQ Level: 2****Credit Value: 2****Guided Learning Hours: 20**

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of cattle, sheep and goat production in Nigeria, career opportunities and working conditions.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation(DO)
2. Questions and Answers (QA)
3. Witness Testimony (WT)
4. Work Product (WP)
5. Recognition of Prior Learning (RPL)
6. Assignments. (Ass)
7. Reflective Journal (RJ)

UNIT 04: Ruminants production

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page
LO 1: Understand the history and development of cattle, sheep and goat production	1.1	Describe the various terminologies used in animal husbandry.			
	1.2	State the history and development of cattle, sheep and goat production.			
	1.3	Explain the socio-economic importance of cattle, sheep and goat production.			
	1.4	Explain factors that affect animal husbandry			
	1.5	Identify relevant laws and regulations applicable to cattle, sheep and goat production			
	1.6	Identify the various breeds of cattle, sheep and goats			
	1.7	Use a map of Nigeria to identify major cattle, sheep and goats producing areas.			
	1.8	Use map of Nigeria to locate the different breeds of cattle, sheep and goat within those areas.			
LO 2: Understand the employment characteristics in cattle, sheep and goat production	2.1	Outline the various career opportunities in cattle, sheep and goat production			
	2.2	Explain the value chain of cattle, sheep and goat production			
	2.3	List the key role players in cattle, sheep and goat production			
	2.4	Describe the main forms of marketing used in cattle, sheep and goat production			
LO 3: Understand work condition on a ruminant farm	3.1	Carry out procedures involving machines and equipment with full operational safety as indicated by the manufacturer			
	3.2	Demonstrate restraining techniques in handling the animals			
	3.3	Identify the equipment used for personal protection on the farm (PPE)			
Learners Signature:			Date:		
Assessors Signature:			Date:		
IQA Signature (if sampled):			Date:		
EQA Signature (if sampled):			Date:		

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 2 LIVESTOCK FARMING**

Unit 5: Principles of calf, lamb and kid rearing

Unit Reference Number: AHP/LSF/005/L2

NSQ Level: 2

Credit Value: 5

Guided Learning Hours: 50

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of rearing calves, lambs and kids.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Work Product (WP)
5. Recognition of Prior Learning (RPL)
6. Assignments (Ass)
7. Reflective Journal (RJ)

UNIT 05: Principles of calf, lamb and kid rearing

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Understand the principles of calves, lambs and kids housing	1.1	State the types of housing required for calves, lambs and kids		
	1.2	Identify the materials needed for the construction of each house		
	1.3	Identify and use the rearing equipment needed within each house		
LO 2: Understand the methods of feeding calves, lambs and kids	2.1	Explain the nutrient requirements of calves, lambs and kids		
	2.2	Carryout feeding of calves, lambs and kids		
	2.3	State the importance of colostrum in calf, lamb and kid feeding		
LO3: Understand the principles of calf, lamb and kid health management	3.1	Identify the basic health challenges of calves, lambs and kids		
	3.2	List the steps to make calves, lambs and kids healthy		
	3.3	Carry out the routine vaccination for calves, lambs and kids		
	3.4	Identify the right age to wean calves, lambs and kids		
Learners Signature:			Date:	
Assessors Signature:			Date:	
IQA Signature (if sampled):			Date:	
EQA Signature (if sampled):			Date:	

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 2 LIVESTOCK FARMING**

Unit 6: Tools, equipment and materials in animal husbandry**Unit Reference Number: AHP/LSF/006/L2****NSQ Level: 2****Credit Value: 5****Guided Learning Hours: 50**

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of different tools, equipment and consumables in animal husbandry.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is/or is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal (RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments

UNIT 06: Tools, equipment and materials in animal husbandry

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Ref. No.	Page
The learner will:		The learner can:			
LO 1: Identify equipment, tools used in animal husbandry in Nigeria	1.1	Identify the various tools, equipment and materials in animal husbandry			
	1.2	Use tools, equipment and materials in animal husbandry			
	1.3	Explain the maintenance practices of different equipment and tools in animal husbandry.			
LO 2: Understand the equipment, maintenance and safety on livestock farm	2.1	Demonstrate the use of tools, equipment and materials in animal husbandry			
	2.2	Demonstrate the maintenance and storage of tools, equipment and materials in accordance with manufacturer's specifications.			
	2.3	Describe the safety precautions in the use of equipment and tools			
LO 3: Identify some consumables used in livestock farm in Nigeria	3.1	List the consumables in animal husbandry			
	3.2	Use different consumables in animal husbandry			
	3.3	Carryout disposal of used/expired consumables in animal husbandry			
Learners Signature:			Date:		
Assessors Signature:			Date:		
IQA Signature (if sampled):			Date:		
EQA Signature (if sampled):			Date:		

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
LEVEL 2 ANIMAL HUSBANDRY SECTOR**

Unit 7: Nutrition in animal husbandry

Unit Reference Number: Unit Reference Number: AHP/LSF/007/L2

NSQ Level: 2

Credit Value: 4

Guided Learning Hours: 40

Unit Purpose: This unit is designed to equip the learner with the basic knowledge of ingredients used in formulating livestock feeds and the different types of feeds used in livestock feeding in Nigeria.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Questions and Answers(QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal (RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments

UNIT 07: Nutrition in animal husbandry

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Understand Ruminant nutrition	1.1	Identify sources of concentrates and roughage								
	1.2	Highlight the nutritional contents of concentrates and roughage								
	1.3	List the different pasture (grasses) and legumes (pasture) used in feeding livestock								
	1.4	highlight the nutritional composition of grasses and legumes used in feeding livestock								
	1.5	Identify varieties of feed ingredients used in formulating livestock feeds								
	1.6	Identify the concentrates and roughages used in feeding livestock								
LO 2: Understand the techniques in formulating livestock feeds using locally available ingredients	2.1	Describe the process of formulating feeds for the fattening of Ruminants								
	2.2	List the tools and equipment required to compound livestock feeds								
	2.3	Describe the equipment used in mixing livestock feeds								
	2.4	Demonstrate the techniques in mixing livestock feeds								
	2.5	Identify places where livestock feeds are compounded								
LO 3: Understand the different methods of processing and storage of livestock feeds	3.1	State the benefits in processing livestock feeds in Nigeria								
	3.2	Describe equipment used in livestock feed processing								
	3.3	Explain methods of storage of feed raw materials and finished feeds products								
	3.4	Carryout the procedure involved in grinding grains for livestock feeding								

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
	3.5	Carryout the procedure involved in maintaining equipment for processing livestock feeds		
	3.6	Demonstrate how to make hay		
	3.7	Demonstrate how to store hay in a barn		
	3.8	Differentiate between feed raw materials and finished products		
Learners Signature:			Date:	
Assessors Signature:			Date:	
IQA Signature (if sampled):			Date:	
EQA Signature (if sampled):			Date:	

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
LEVEL 2 ANIMAL HUSBANDRY SECTOR**

Unit 8: Common diseases and parasites of livestock

Unit Reference Number:

Unit Reference Number: AHP/LSF/008/L2

NSQ: Level 2

Credit Value: 3

Guided Learning Hours: 30

Unit Purpose: This unit is designed to equip the learner with knowledge and skills of detecting common diseases and parasites of livestock in Nigeria.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is/or is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal(RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments.

UNIT 08: Common diseases and parasites of livestock

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type				Evidence Ref. Page No.			
The learner will:		The learner can:								
LO 1: Understand common livestock diseases	1.1	Identify the classes of livestock diseases (fungal, viral, bacterial, parasitic etc).								
	1.2	Identify signs of diseases in Ruminant farms								
	1.3	Identify the early signs of ill-health in animals: ➤ Off feed. ➤ Self-isolating. ➤ Rough coat etc.								
	1.4	Identify diseased animals in the flock								
LO 2: Understand disease management and prevention	2.1	Explain administration of drugs on diseased livestock								
	2.2	Identify the risk factors in treatment/handling of diseased animals								
	2.3	Carryout the preventive and control measures for the various types of animal diseases								
	2.4	Observe health and safety precautions in handling infected animals.								
LO 3: Understand common livestock parasites in animal husbandry	3.1	Identify various livestock parasites								
	3.2	Carryout deworming, delousing, deticking of Ruminants parasitic diseases								
	3.3	Carryout prevention and control measures of major livestock diseases								
Learners Signature:			Date:							
Assessors Signature:			Date:							
IQA Signature (if sampled):			Date:							
EQA Signature (if sampled):			Date:							

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
LEVEL 2 ANIMAL HUSBANDRY SECTOR**

Unit 9: Animal welfare in Ruminant production

Unit Reference Number: Unit Reference Number: AHP/LSF/009/L2

Credit Value: 5

Guided Learning Hours: 50

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of standard requirement for care and movement of animals in Nigeria.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is/or is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal(RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments

UNIT 09: Animal welfare in Ruminant production

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type				Evidence Ref. Page No.			
The learner will:		The learner can:								
LO 1: Demonstrate understanding of preparing, maintaining and monitoring livestock accommodation	1.1	Identify an ideal site for ruminant pen/house construction								
	1.2	Identify an ideal ruminant pen/house design based on location								
	1.3	Monitor the behaviour of individual animals for proper accommodation								
	1.4	Carryout sanitation in Ruminant pen/house								
	1.5	Identify and report faults in a Ruminant pen/house								
	1.6	Identify hazards in outdoor sites								
	1.7	Carryout tethering for the treatment of animals against diseases								
	1.8	Carryout dehorning to prevent injury to other animals								
LO 2: Understand the proper way to feed and water ruminant animals	2.1	Describe the standard methods of feeding ruminants (feedlot, open grazing, supplementation)								
	2.2	Distinguish the normal feeding habits of the animals								
	2.3	Carryout hygiene measures for feeding and watering of animals								
	2.4	Carryout Feeding of right quantity of ration for animals in accordance with instructions								
	2.5	Provide water to the animals from good sources								
	2.6	Clean watering equipment before and after drinking and store equipment appropriately								
	2.7	Dispose feed remnants appropriately								
LO :3 Understand the proper way of restraining and transporting animals	3.1	Identify tools and equipment for restraining of animals (rope snare, sedative,)								
	3.2	Carryout restraining of the animal for transportation.								
	3.3	Carryout restraining of the animal for treatment.								

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Ref. Page No.
The learner will:		The learner can:		
Learners Signature:			Date:	
Assessors Signature:			Date:	
IQA Signature (if sampled):			Date:	
EQA Signature (if sampled):			Date:	

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
LEVEL 2 ANIMAL HUSBANDRY SECTOR**

Unit 10: Biosecurity practices in livestock farming**Unit Reference Number:****Unit Reference Number: AHP/LSF/010/L2****NSQ Level: 2****Credit Value: 6****Guided Learning Hours: 60**

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of adopting biosecurity practices in livestock farms in Nigeria.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is/or is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal (RP)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments

UNIT 10: Biosecurity practices in livestock farming

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type				Evidence Ref. Page No.			
The learner will:		The learner can:								
LO 1: Understand biosecurity practices in livestock farms	1.1	Identify measures for biosecurity in livestock farms (fence, trapping net, foot baths, quarantine of newly introduced animals etc								
	1.2	Set-up biosecurity measures at different points of the farm.								
	1.3	Carryout fumigation of transport vehicles, farm equipment and environment.								
LO 2: Understand biosecurity related to feeds and equipment	2.1	Identify the source of contaminants in a feed mill (raw materials, equipment, finished feed etc)								
	2.2	Carry out stacking and storage of raw materials, finished feed and equipment in the proper order.								
	2.3	Fumigate the feed mill environment								
	2.4	Carryout receipt and issuance of raw materials and finished feed in accordance with FIFO								
	2.5	Confirm the source and history of new stock of animals into the farm (health, means of transportation etc)								
	2.6	Wear the appropriate PPEs								
LO 3: Understand types of biosecurity	3.1	Demonstrate the quarantine of new animals to the livestock farm								
	3.2	Carryout isolation of sick animals								
	3.4	Assist, administer routine vaccines to farm animals								
Learners Signature:			Date:							
Assessors Signature:			Date:							
IQA Signature (if sampled):			Date:							
EQA Signature (if sampled):			Date:							

NATIONAL SKILLS QUALIFICATION

LIVESTOCK FARMING:

ANIMAL HUSBANDRY

LEVEL 3

FEBRUARY, 2025

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 3 IN LIVESTOCK FARMING**

QUALIFICATION PURPOSE: This qualification is designed to provide learners with the knowledge and skills required to carry out farming, animal keeping and livestock production.

QUALIFICATION OBJECTIVES

Upon completion of the level, the individual will be able to;

1. Perform routine management practices in farms
2. Mix feed and utilize effectively
3. Perform selection of animals for breeding
4. Manage dry, pregnant and lactating ruminants
5. Manage injuries and assist in handling sick and injured animals

Mandatory Units

S/No /Unit No	Reference Number	NOS Title	Credit Value	Guided Learning Hours	Remark
1	AHP/LSF/001/L3	Work Safety in livestock Farm Environment	2	20	NSQ Level 3
2	AHP/LSF/002/L3	Effective communication in livestock Farm Environment	2	20	NSQ Level 3
3	AHP/LSF/003/L3	Team Work in livestock Farm Practice	2	20	NSQ Level 3
4	AHP/LSF/004/L3	Routine management practices in ruminant' production	2	20	NSQ Level 3
5	AHP/LSF/005/L3	Management of dry, pregnant and lactating animals	5	50	NSQ Level 3
6	AHP/LSF/006/L3	Selection criteria for breeding in ruminants	5	50	NSQ Level 3
7	AHP/LSF/009/L3	Meat and milk handling techniques	5	50	NSQ Level 3
	TOTAL		23	230	

Optional Units

S/No /Unit No	Reference Number	NOS Title	Credit Value	Guided Learning Hours	Remark
8	AHP/LSF/010/L3	Feed production and utilization in ruminants	4	40	NSQ Level 3
9	AHP/LSF/002/L3	Disease Management in ruminants	5	50	NSQ Level 3
			9	90	

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 3 LIVESTOCK FARMING**

Unit 1: Work safety in a livestock farm environment

Unit Reference Number: AHP/LSF/001/L3

NSQ Level: 3

Credit Value: 2

Guided Learning Hours: 20

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of adherence to health and safety precaution and avoidance of environmental hazards associated with working on a livestock farm.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal(RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments

UNIT 01: Work safety on a livestock Farm

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Ref. Page No.
The learner will:		The learner can:		
LO 1: Work safety in a livestock farm environment	1.1	Explain safe work practices as obtained along the livestock production value chain		
	1.2	Identify safety signs and symbols on livestock farms		
	1.3	Identify the safety signs and symbols in livestock facilities		
	1.4	Demonstrate safe work practices and instructions on livestock farms		
	1.5	Operate in accordance with health and safety practices		
LO 2: Comply with safety standards on livestock Farm.	2.1	Identify work environment hazards		
	2.2	State types of hazards and risks associated with livestock farms and processing facilities		
	2.3	State safety standards on livestock farms and processing facilities		
	2.4	Use safety tools, materials and equipment in livestock processing facilities		
LO 3: Apply personal protective equipment (PPE) in livestock processing facilities	3.1	Identify the types of PPEs required for livestock processing plants		
	3.2	Select appropriate PPE for livestock processing plants		
	3.3	Demonstrate the use of PPE		
	3.4	Maintain PPEs before or after use		
LO 4: Respond to accidents/injury in livestock processing plants	4.1	Locate first aid facility		
	4.2	Use basic dressing materials for first aid		
	4.3	Respond to supervisor`s given instructions		
	4.4	Report incidences of accident/injury to the appropriate supervisor		
LO 5: Apply safe work habit and clean work environment in livestock processing plants	5.1	Use safe access and exit routes in the work environment		
	5.2	Identify appropriate working tools, materials and equipment		
	5.3	Use tools and equipment safely in accordance with the supervisors instructions		
	5.4	Return all tools, equipment and		

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Ref. Page No.
The learner will:		The learner can:		
		unused materials for appropriate storage		
	5.5	Carry out general housekeeping of work environment		
	5.6	Dispose all wastes appropriately to designated waste facilities		
LO 6: Comply with standards of lifting, loading/offloading and stacking of materials in livestock processing facilities	6.1	Identify lifting and stacking techniques		
	6.2	Demonstrate lifting techniques in loading and offloading of materials without assistance		
	6.3	Demonstrate correct lifting and loading techniques with mechanical assistance		
	6.4	Stack materials correctly		
Learners Signature:			Date:	
Assessors Signature:			Date:	
IQA Signature (if sampled):			Date:	
EQA Signature (if sampled):			Date:	

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 3 LIVESTOCK FARMING**

Unit 2: Effective communication in livestock Farm Environment**Unit Reference Number: AHP/LSF/002/L3****NSQ Level: 3****Credit Value: 2****Guided Learning Hours: 20**

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of communication in livestock farming.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal(RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments.

UNIT 02: Effective communication in livestock farm environment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Apply the use of a non-complex communication system in a work environment	1.1	Use verbal means to pass on necessary information		
	1.2	Use non-verbal means to convey necessary information e.g. ➤ body language, ➤ signs		
	1.3	Interpret symbols and signs appropriately		
LO 2: Source for information on a livestock work environment	2.1	Identify the source of information in the work environment		
	2.2	Relate effectively with the source of information		
	2.3	Use the different information flow systems in a work environment		
	2.4	Use information gathered to avoid challenges in a work situation		
	2.5	Report findings appropriately in accordance with laid down procedures in the work environment i.e. ➤ Cards, ➤ Flip Chart		
	2.6	Use simple communication gadget like ➤ mobile phones and ➤ table phones		
LO 3: Apply various means of communication in a livestock work environment	3.1	Locate the various communication equipment in the work environment		
		Use effectively the various communication equipment in a work environment		
	3.2	Pass information effectively to the right personnel		
	3.3	Obey instructions in line with ethics of the work environment		

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 3 LIVESTOCK FIRMING**

UNIT 3: TEAMWORK IN LIVESTOCK FARM PRACTICE**Unit Reference Number:** AHP/LSF/003/L3**NSQ Level:** 3**Credit Value:** 2**Guided Learning Hours:** 20**Unit Purpose:**

This unit is designed to equip the learner with the knowledge and skills to develop team spirit and positive working relationship with colleagues.

Unit Assessment requirement

Assessment of this unit must be at a real practical work environment, simulation is not allowed unless where indicated.

Unit assessment requirements/evidence requirements

1. Direct observation (DO)
2. Work Product (WP)
3. Professional Discussion (PD)
4. Questions and Answer (Q&A)
5. Reflective Journal (RJ)
6. Witness statement (WS)
7. Assignments (Ass)

Unit 3: Teamwork in Livestock Farm Practice

LO (Learning outcome)		Criteria:-	Evidence Type				Evidence Ref Page number			
LO 1 Know Positive working relationship with colleagues	1.1	Identify the need for developing positive working relationship with colleagues								
	1.2	Recognize the importance of relating with other people in a way that makes them feel valued and respected								
	1.3	Assist team members when required.								
	1.4	Report to the appropriate personnel when request for assistance fall outside area of responsibility.								
	1.5	Communicate information to colleagues about individual work that may affect team work.								
LO 2 Take responsibility within the team										
	2.1	Recognize own role and responsibilities within a team								
	2.2	Perform individual tasks in line with the team's rules and regulations.								
	2.3	Participate effectively in teamwork.								
LO.3 Compliance with policy of organisation										
	3.1	Explain organizational code of conduct								
	3.2	Work in line with organizational standard								
	3.3	Use organizational code of practice								
	3.4	Adhere strictly to instructions given by the Management								

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled):	Date:
EQA Signature (if sampled):	Date:

**NATIONAL SKILLS QUALIFICATION
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LEVEL 3 ANIMAL HUSBANDRY SECTOR**

Unit 4: Routine management practices in ruminant production

Unit Reference Number: AHP/LSF/004/L3

NSQ Level: 3

Credit Value: 2

Guided Learning Hours: 20

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of routine management practices in managing Ruminant Animals.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Work Product (WP)
5. Recognition of Prior Learning (RPL)
6. Assignments (Ass)
7. Reflective Journal (RJ)

UNIT 04: Routine management practices in ruminants production

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Ref. Page No.
The learner will:		The learner can:		
LO 1: Carryout routine management practice in ruminant production	1.1	Carry out deworming of all animals except the pregnant animals on the farm		
	1.2	Carry out hoof trimming, dehorning, nose ring application on all animals with an over grown hooves on the farm		
	1.3	Carry out dipping/spraying against ecto-parasite using the appropriate agents		
	1.4	Carry out daily cleaning routine management practices using, brooms, shovels etc.		
LO 2: Use the basic equipment to carry out management practices in ruminant production	2.1	Identify tools and equipment in management practice in ruminant production (drenching gun, hoof trimmer, etc.)		
	2.2	Use the drenching gun or syringe to carry out deworming.		
	2.3	Use the hoof trimmer to carry out the hoof trimming of all animals with over grown hooves		
	2.4	Use polling ring or caustic soda to dehorn		
	2.5	Use the dipping pit or Knapsack sprayer against ecto-parasite on all animals on the farm		
LO 3: Maintain equipment handling before and after usage	3.1	Wash deworming equipment after use		
	3.2	Disinfect equipment after use.		
	3.3	Ensure proper handling and safe keeping of all equipment after use.		
	3.4	Disinfect and rest the house after disease outbreak		

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:

**NATIONAL SKILLS QUALIFICATION
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Unit 5: Management of dry, pregnant and lactating animals

Unit Reference Number: Unit Reference Number: AHP/LSF/005/L3

NVQ Level: 3

Credit Value: 5

Guided Learning Hours: 50

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of managing Ruminant Animals in different physiological states.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal (RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments, case study, essay, project, etc.

UNIT 05: Management of dry, pregnant and lactating animals

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type				Evidence Ref. Page No.			
The learner will:		The learner can:								
LO 1: Carryout the management of the open stage of ruminant animals	1.1	Identify the dry/open stage of ruminant animals								
	1.2	Carryout flushing exercise of livestock								
	1.3	Carryout mating of the animals								
LO 2: Carryout the management of pregnant ruminant animals	2.1	Identify the pregnant stage of ruminant animals								
	2.2	Identify the management practice of pregnant stage of ruminant								
	2.3	Carryout proper feeding of the pregnant animal.								
	2.4	Carryout steaming of ruminant animals during late pregnancy.								
LO3: Understand the management of lactating ruminant animals and their young ones	3.1	Identify the lactating stage of ruminant animals								
	3.2	Explain the importance of management practices of the lactating animals and their young ones								
	3.3	Recognize the importance of additional ration to the lactating animals based on the number and age of their young ones								
Learners Signature:			Date:							
Assessors Signature:			Date:							
IQA Signature (if sampled):			Date:							
EQA Signature (if sampled):			Date:							

**NATIONAL SKILLS QUALIFICATION
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Unit 6: Selection criteria for breeding in ruminants

Unit Reference Number: AHP/LSF/006/L3

NVQ Level: 3

Credit Value: 3

Guided Learning Hours: 30

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills to carry out simple types of selection, and make informed decisions on which animals to keep for breeding or replacement stock.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is/or is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal(RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments, case study, essay, project, etc.

UNIT 06: Selection criteria for breeding in ruminants

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Page No.	Ref.
The learner will:		The learner can:			
LO 1: Carryout different selection methods in ruminant production	1.1	Carry out different methods of selection naturally			
	1.2	Carry out different methods of selection artificially.			
	1.3	Carryout selection for ruminant breeding (rump angle, well developed testicles, teats etc)			
	1.4	Select traits for fattening			
	1.5	Select trait for milk (dairy)			
LO 2: Understand different breeding methods	2.1	Carryout out breeding			
	2.2	Bring the animals together for natural mating			
	2.3	Assist in artificial insemination			
LO3 monitor and carryout management of a pregnant ruminant	3.1	Monitor animals for signs of heat			
	3.2	Administer proper diet of the ruminant			
	3.3	Assist the Dams during Calving, Lambing or Kidding.			
Learners Signature:			Date:		
Assessors Signature:			Date:		
IQA Signature (if sampled):			Date:		
EQA Signature (if sampled):			Date:		

**NATIONAL SKILLS QUALIFICATION
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LEVEL 3 ANIMAL HUSBANDRY SECTOR**

Unit 7: Meat and milk handling Techniques**Unit Reference Number: Unit Reference Number: AHP/LSF/007/L3****Credit Value: 5****Guided Learning Hours: 50**

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of techniques involved in meat and milk handling.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. ***Simulation is/or is not allowed*** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal (RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments

UNIT 07: Meat and milk handling Techniques

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type				Evidence Ref. Page No.			
The learner will:		The learner can:								
LO 1: Demonstrate the basic handling of milk	1.1	Identify milking equipment								
	1.2	Carryout milking								
	1.3	Pasteurize the Milk								
	1.4	Store the milk after Pasteurization appropriately								
LO 2: Demonstrate basic handling of meat	2.1	Identify the equipment used in meat handling								
	2.2	Slaughter the animal, bleed, eviscerate and wash the carcass etc								
	2.3	Cut the carcass into different parts								
	2.4	Store the meat appropriately								
LO 3: Carry out marketing of Milk and Meat products	3.1	Identify market sources and outlets for ruminant products								
	3.2	Process and package the meat product for sale (kilishi, dambu)								
	3.3	Process and package the milk products (yoghurt) for sales								
	3.4	Carryout marketing of the products								
Learners Signature:			Date:							
Assessors Signature:			Date:							
IQA Signature (if sampled):			Date:							
EQA Signature (if sampled):			Date:							

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
LEVEL 3 ANIMAL HUSBANDRY SECTOR**

Unit 8: Feed production and utilization in ruminants

Unit Reference Number: Unit Reference Number: AHP/LSF/008/L3

Credit Value: 4

Guided Learning Hours: 40

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of feed formulation, compounding and utilization.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is/or is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Journal (RJ)
5. Work Product (WP)
6. Recognition of Prior Learning (RPL)
7. Assignments

UNIT 08: Feed production and utilization

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Page No.	Ref.
The learner will:		The learner can:			
LO 1: Understand ruminants' nutrition	1.1	Describe the general functions of feed to ruminant animals			
	1.2	Identify the major classes of nutrient needed by ruminant animals			
	1.3	Select feed ingredients for energy sources of feed for ruminant animals e.g.: ➤ Maize, ➤ wheat, and ➤ grass			
	1.4	Select both plant and animal sources of protein e.g.: ➤ Soy-beans, ➤ groundnut ➤ fish meal, ➤ blood meal etc.			
	1.5	Select the sources of fat in ruminant animals e.g.: ➤ palm oil, ➤ palm kernel etc.			
	1.6	Select the mineral sources of feed in ruminant animals			
	1.7	Identify the vitamin sources of feed in ruminant animals			
LO 2: Understand the functions of different classes of feed in ruminant animals	2.1	Describe the function of carbohydrates			
	2.2	Identify the meaning of fiber and its role in the ruminant animals			
	2.3	Identify the function of protein in ruminant animals			
	2.4	Identify the function of fat and oil (Lipids)			
	2.5	Identify the function of vitamins			
	2.6	Explain the function of water and estimate the water requirement of ruminant animals in the tropics			
LO 3:	3.1	Identify the components of feed mill			

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type	Evidence Page No.	Ref.
The learner will:		The learner can:			
Understand the techniques for formulating feeds for ruminant animals					
	3.2	Assemble the components of feed mill			
	3.3	Collect different ingredients to the production floor			
	3.4	Carry out hay and silage making			
	3.5	Measure, package and store the finish feed			
Learners Signature:			Date:		
Assessors Signature:			Date:		
IQA Signature (if sampled):			Date:		
EQA Signature (if sampled):			Date:		

**NATIONAL SKILLS QUALIFICATION
ANIMAL HUSBANDRY SECTOR
NSQ LEVEL 3 LIVESTOCK FARMING**

Unit 009: Disease Management in ruminants**Unit Reference Number: AHP/LSF/009/L3****NSQ Level: 3****Credit Value: 5****Guided Learning Hours: 50**

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of diseases and health management in ruminant animals.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. **Simulation is not allowed** in this unit and level.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Work Product (WP)
5. Recognition of Prior Learning (RPL)
6. Assignments (Ass)
7. Reflective Journal (RJ)

UNIT 009: Disease Management in ruminants

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type				Evidence Ref. Page No.			
The learner will:		The learner can:								
LO 1: Understand the diseases of the ruminant animal	1.1	Explain the different types of disease-causing pathogens of ruminant animals								
	1.2	Identify the diseases caused by bacteria in ruminant animals								
	1.3	Identify the diseases caused by fungi in ruminant animals								
	1.4	Identify the diseases caused by viruses in ruminant animals								
	1.5	Identify the diseases caused by protozoa in ruminant animals								
	1.6	Explain the effect of unbalanced diet and how it causes nutritional disease								
	1.7	Describe the parasitic diseases of ruminant animals								
LO 2: Understand the state of an unhealthy animal	2.1	Identify the different signs of diseases in ruminant animals								
	2.2	Identify the predisposing factors to disease in ruminant animals								
	2.3	Isolate and quarantine the unhealthy ruminants								
LO 3: Understand the basic principles of treatment of diseases including drugs administration	3.1	Identify the different routes of drugs administration								
	3.2	Administer common drugs used in treating different types of diseases (coccidiostat, dewormers etc).								
	3.3	Administer drugs as directed using syringe and needle to inject ruminant animals (for animal health technologist)								
	3.4	Demonstrate the different prophylactic treatment on ruminant animals								
Learners Signature:			Date:							
Assessors Signature:			Date:							
IQA Signature (if sampled):			Date:							
EQA Signature (if sampled):			Date:							

**National Skills
Qualifications
FOR
ANIMAL
HUSBANDRY
LIVESTOCK FARMING**

LEVEL 1, 2 & 3



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