

FEDERAL MINISTRY OF EDUCATION

## National Skills Qualifications FOR

## AGRICULTURAL EQUIPMENT OPERATION



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## **National Board for Technical Education**

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



NATIONAL SKILLS QUALIFICATION

# AGRICULTURAL EQUIPMENT OPERATION

## **LEVEL 1-3**

FEBRUARY, 2025

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Unit title	Provides a clear explanation of the content of the unit.
Unit number	The unique number assigned to the unit.
Unit reference	The unique reference number given to each unit at qualification approval by NBTE
Unit level	Denotes the level of the unit within the National Vocational Qualification framework NVQF.
Unit credit value	The value that has been given to the unit based on the expected learning time for an average learner. 1 credit = 10 learning hours
Unit aim	Provides a brief outline of the unit content.
Learning outcome	A statement of what a learner will know, understand or be able to do, as a result of a process of learning.
Assessment criteria	A description of the requirements a learner must achieve to demonstrate that a learning outcome has been met.
Unit assessment guidance	Any additional guidance provided to support the assessment of the unit.
Unit guided	The average number of hours of supervised or directed study time or
learning hours	assessment required to achieve a qualification or unit of a qualification.

#### GUIDE

## NATIONAL OCCUPATIONAL STANDARDS

This program is designed for three levels of professional Agricultural Equipment Operators:

- 1) Level I Agricultural Equipment Operations
- 2) Level II Agricultural Equipment Operations
- **3)** Level III Agricultural Equipment Operations

## NATIONAL SKILLS QUALIFICATION

# AGRICULTURAL EQUIPMENT OPERATION

# LEVEL 1

FEBRUARY, 2025

## NATIONAL SKILLS QUALIFICATION AGRICULTURAL EQUIPMENT OPERATIONS LEVEL 1

## **GENERAL INFORMATION**

## OVERVIEW

This qualification aims to equip learners with knowledge and skills in Communicating effectively, working in a team, complying with health and safety requirements, Operations of Agricultural Equipment, management of storage facilities and waste generated on the farm. The learner shall be supervised by higher officer such as Farm Manager or Supervisor. The learner is expected to assist and carry out tasks that are not of decision-making nature on the field or farm. This qualification is subject to review as at when the need arises

## **QUALIFICATION PURPOSE**

This qualification is designed to equip learner with knowledge and skills on Agricultural Equipment Operation.

## **QUALIFICATION REQUIREMENTS**

All Learners must:

- a. Be at least (12) years of age
- b. Be medically fit
- c. Be physically fit
- d. Be mentally fit (Mental alertness)
- e. Have achieved all the Safety and Health mandatory units in the qualification
- f. Be a Nigerian citizen
- g. Other nationals (International passport, residence permit)
- h. Be vetted

## **QUALIFICATION OBJECTIVE**

At the end of the qualification, the learner should be able to:

- a. Communicate effectively in workplace
- b. Work in a team
- c. Comply with health and safety requirement
- d. Carry out farm work with hand tools and implements.
- e. Operate Animal Draught tools and implements.
- f. Operate Power Tiller implement and equipment
- g. Operate some basic Tractor operations
- h. Operate threshing, shelling and decorticating equipment

## UNIT ASSESSMENT/EVIDENCE REQUIREMENTS:

Assessment must be carried out in real workplace environment in which learning and human

development is carried out. Simulation is allowed in this unit and level.

## Assessment Methods to be Used Include:

- 1. Direct Observation/Oral Q&A (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS)
- 5. Examine work product

(This depends on the Trade Areas to be assessed)

		-			
S/No	<b>Reference Number</b>	NOS Title	Credit Value		
			Guided Le	earning Hours	
1	AGR/AEO/L1/01	Use of Farm Hand tools and	1	10	
		Equipment			
2	AGR/AEO/L1/02	Occupational Health and Safety	2	20	
3	AGR/AEO/L1/03	Communication and Interpersonal Skills	2	20	
4	AGR/AEO/L1/04	Team Work	1	10	
5	AGR/AEO/L1/05	Use of Animal Draught tools and implements	2	20	
SUBT	DTAL		8	80	
		Optional Units			
6	AGR/AEO/L1/06	Operation of Power Tiller Implement and Equipment	3	30	
7	AGR/AEO/L1/07	Operations of Farm tractor, Implement and Equipment	5	50	
8	AGR/AEO/L1/08	Operation of Threshing, shelling and decorticating Equipment	4	40	
SUBT	DTAL	1	12	120	
TOTAL			20	200	

## **Mandatory Units**

NOTE: This is a 28-credit unit qualification. To achieve this qualification; Learners are required to achieve all mandatory credits units in the level and three (3) additional units from the optional units in the level. Each Credit is equivalent to 10 Guided Learning Hours (GLH). The Total Learning Hours will therefore consist of the GLH plus the independent learning hours of the Learner, which is generally 50% – 150% of the GLH. The actual Total Learning Hours for each Credit will then be a minimum of 15 hours.

## Unit 01: Use of Farm Hand tools and Equipment

Unit Reference Number: AGR/AEO/L1/01							
Level:	1						
Credit Value:	1						
<b>Guided Learning Hours:</b>	10						

## **Unit Purpose:**

This unit is designed to provide learner with knowledge and skills of manual farm hand tools

## **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Recognize the use of hand tools for clearing and tillage operations
- 2. Use hand tools for seedbed preparation and planting
- 3. Use Equipment for crop protection
- 4. Use hand tools and equipment for chemical fertilizer/ manure application
- 5. Use hand tools and Equipment for harvesting of crops

## Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral Questions and Answer (DO).
- 2. Question and Answer (QA).
- 3. Reflective Journal (RJ).
- 4. Personal Statement (PS)
- 5. Examine Work Product (WP)
- 6. Witness Testimony (WT)

LEARNING OBJECTIVE (LO)				Evidence Type			ef.	nce Pag	e	
The learner will:		The learner can:								
LO 1:	1.1	Recognize farm hand tools and equipment								
Use hand tools	1.2	Group farm tools and equipment based on								
for clearing and		crops production:								
tillage		Tuber crops								
Operations		Cereals crops								
		Fruits								
	1.3	Identify the uses of different groups of farm								
		tools and equipment:								
		Machete								
		Cutlass								
		<ul> <li>Diggers</li> </ul>								
		Rakes								
		<ul> <li>Knapsack</li> </ul>								
		ULV Sprayer								
		Hand Planter								
	1.4	Identify types of soils:								
		• Clay								
		• Sandy								
		Loamy						-		
	1.5	Select proper hand tool based on:								
		Soil type								
	4 5	Crop type								
	1.5	Clear the farm plot using appropriate hand tools								
	1.6	Till the soil using appropriate hand tools;								
	1.0	machete, cutlass, diggers, rakes, axe								
	1.7	Carryout maintenance of farm hand tools								
	1.7	and equipment								
	1.8	Carryout the safety measures required in								
		handling farm hand tools and equipment								
LO 2:	2.1	Identify hand tools for seedbed preparation								
Use hand tools		and planting								
for seedbed	2.2	Use different hand tools and equipment in								
preparation and		preparation of seedbeds								
planting	2.3	Operate hand planter.			1					
	2.4	Carryout maintenance of tools and								
		equipment use in hand planting and								
		seedbeds preparation.								
	2.5	Carryout the safety measures required in								
		handling farm tools and equipment.								

L0 3:	3.1	Identify hand tools for mechanical crop					
Use hand tools		protection:					
for crop		Cutlass					
protection		• Hoe					
		Rake					
	3,2	Carryout weeding using mechanical hand					
		tools					
	3.3	Identify hand equipment for chemical crop					
		protection:					
		Knapsack					
		Multipurpose garden sprayer					
	3.4	Select appropriate herbicides for crop					
		protection/weeding				 	
	3.5	Carryout weeding using chemical application hand tools					
	3.6	Carryout maintenance of hand tools and				 	
	5.0	equipment for crop protection					
LO 4:	4.1	Identify hand tools and equipment for		 			
Use hand tools	7.1	fertilizer/ manure application:					
and equipment	4.0					 	
for chemical	4.2	Operate tools and equipment use for chemical fertilizer/manure application.					
fertilizer/	4.3	Carryout maintenance of tools and					
manure		equipment use for fertilizer/ manure					
application		application:					
LO 5:	5.1	Identify hand tools for harvesting crops					
Use hand tools	5.2	Harvest crops using appropriate tools or					
for harvesting of		equipment					
crops	5.5	Carryout the safety measures required in					
		handling hand tools and equipment for					
		harvesting crops					
	5.6	Carryout maintenance of hand tools and					
		equipment use for harvesting of crops					

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

## **UNIT 02: Occupational Health and Safety**

Unit Reference Number: AGR/AEO/L1/02								
Level:	1							
Credit Value:	2							

Guided Learning Hours: 20

**Unit Purpose**: This unit specifies the competencies required to demonstrate safe work practices. It involves learning about workplace safety, correct use of signs and symbols, identifying and reducing risks of hazards in the work environment.

## **Objectives:**

At the end of this unit, the learner should be able to:

- Demonstrate Safe working Practices and Instructions
- Understand Safety Hazards and risks
- Know how to take appropriate actions during accident/injury
- Demonstrate safe work habit and clean work environment

## Unit assessment requirements/ evidence requirement

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/oral questions (DO).
- 2. Question and Answer (QA).
- 3. Professional Discussion (PD).
- 4. Personal Statement (PS)
- 5. Examine Work Product
- 6. Witness Testimony (WT)

## UNIT 02: Occupational Health and Safety

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA		Evidence Type										denc . Pa	-
The learner will:		The learner can:													
LO 1: Identify	1.1	Explain safety work practice and instructions.													
the various safe	1.2	Explain safety signs and symbols.													
working	1.3	Identify safety signs and symbols													
Practices and	1.4	Describe how to work in accordance with													
Instructions		health and safety best practices.													
LO 2: Recognize	2.1	Explain various work environment hazards.													
Safety Hazards	2.2	Describe ways to reduce risk in workplace													
and risks	2.2	Describe ways to avoid common workplace													
		hazards													
LO 3:	3.1	Describe the safe access and exit routes in													
Understand the		the work environment.													
safe work habit	3.2	Explain safe work habit and clean work													
and clean work		environment.													
environment	3.3	Use proper Personnel Protective Equipment													
		(PPE) at workplace													
	3.4	Explain how to dispose all wastes													
		appropriately to designated waste facilities													

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

## **UNIT 03: Communication and Interpersonal Skills**

Unit Reference Number: AGR/AEO/L1/03 Level: 1 Credit Value: 2 Guided Learning Hours: 20

**Unit Purpose:** This unit specifies the competencies required to demonstrate good communication and interpersonal skills. It involves the ability to read and understand documented instructions and the ability to know how to communicate respectfully when in a bad mood or under pressure.

#### **Objectives:**

At the end of this unit, the learner should be able to:

- Understand the importance of good communication
- Demonstrate how to follow documented instructions
- Know how to create documented instructions

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/oral questions (DO).
- 2. Question and Answer (QA).
- 3. Professional Discussion (PD).
- 4. Personal Statement (PS)
- 5. Examine Work Product (WP)
- 6. Witness Testimony (WT)

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA Evidence Type						2	Evi Ref No.	ce Page
The learner will:		The teamer can.		_						
LO 1: Recognize	1.1	Define communication.								
the concept of communication	1.2	Distinguish between the different types of communication.								
	1.3	Select factors to be considered when using each method in 1.2.								
LO 2: Understand	2.1	State the reasons for using signs and symbols in workshops, offices and public places.								
signs and symbols used to	2.2	Explain why good communication is important.								
communicate.	2.3	Draw signs and symbols commonly used in work spaces.								
	2.4	Interpret signs and symbols commonly used in work spaces.								
LO 3: Understand information from any given document.	3.1 3.2 3.3	Comprehend information from: - <ul> <li>charts</li> <li>log books</li> <li>warning instructions</li> <li>manuals</li> <li>operation procedures, etc.</li> </ul> State reasons for good understanding of information given in the documents in 3.1. State steps necessary when skipping through bulky information manuals.								
		butty mormation manuals.								

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

## **UNIT 04: TEAM WORK**

Unit Reference Number: AGR/AEO/L1/04							
Level:	1						
Credit Value:	1						
<b>Guided Learning Hours:</b>	10						

**Unit Purpose**: This unit is aimed to impact into the leaner, the necessary knowledge and skills required to develop team spirit and positive working relationship with the fellow operators in Agricultural Equipment Operation.

## **Objectives:**

At the end of this unit, the learner should be able to:

- Develop positive working relationship with colleagues in the work environment
- Take responsibilities within the team
- Comply with policy and regulations of organization.

## Unit assessment requirements/ evidence requirement

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Witness Testimony (WT)
- 4. Personal Statement (PS)
- 5. Professional Discussion (PD)

## UNIT 04: Team Work

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA		Evidence Type					f.	nce Paş	
The learner will:		The learner can:									
LO 1: Understand	1.1	Define Team/Teamwork									
Teamwork in	1.2	State the benefit (s) of working as a Team									
Equipment Operation	1.3	State the challenges of Teamwork									
LO 2:	2.1	Recognise the qualities of a good Leader,									
Understand	2.2	Explain the benefits of good Leadership									
Leadership in Teamwork	2.3	State the benefits of loyalty and confidentiality									
LO 3: Understand	3.1	Recognise the essence of good working relationship in a Team									
good working relationship	3.2	Explain the contributions of other Team members to ensure good health and social wellbeing in the workplace.									
in a Team	3.3	Identify strategies for good working relationship									
	3.4	Explain organizational code of conduct for own job and teamwork.									
	3.5	Report activities of the teamwork that may negatively affect organizational code of conduct to the appropriate authority.									

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

## Unit 05: Use of Animal Draught tools and implements

Unit Reference Number: AGR/AEO/L1/05

Level: 1 Credit Value: 2 Guided Learning Hours:

20

## **Unit Purpose:**

This unit is designed to provide learner with knowledge and skills of using Animal Draught Tools and Implements.

## **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Recognize Animals and tools for farm operation.
- 2. Use Animal tools for tillage operations
- 3. Use of cart for Transportation in farm operations

#### Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Reflective Journal (RJ).
- 4. Examine Work Product (WP)
- 5. Witness Testimony (WT)
- 6. Personal Statement (PS)

LEARNING OBJECTIVE (LO) The learner		PERFORMANCE CRITERIA The learner can:	 Evidence Type			f.	nce Pag	e	
will:		The tearner can:							
LO 1:	1.1	Identify animals for farm operations							
Recognise Animals and	1.2	Identify the tools and implements use for farm operations							
tools for farm	1.3	Identify Animal drawn tools and implements							
operation.	1.4	Identify Animal hitching components.							
	1.5	Couple tools and implement to drought animals							
	1.6	Use drought animals for farm operation							
	1.5	Recognize drought animal ethnics while using animal for farm operation							
	1.6	Carryout feeding of the drought animal							
LO 2:	2.1	Identify Animal Tillage operation tools							
Use Animal tools for tillage	2.2	Couple the tools and implement to the Animal for operation							
operations.	2.3	Carry out adjustment of the implements.							
	2.4	Perform tillage operation.							
	2.5	Carryout maintenance of tillage operation tools							
LO 3:	3.1	Recognize Cart for transportation							
Use of cart for	3.2	Couple the cart to the Bull							
Transportation	3.3	Use cart for farm operation							_
in farm operations	3.4	Demonstrate health and safety in cart for farm operation							

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	

## **UNIT 06: Operation of Power Tiller Implement and Equipment**

Unit Reference Number: AGR/AEO/L1/06						
Level:	1					
Credit Value:	3					
<b>Guided Learning Hours:</b>	30					

## **Unit Purpose:**

This unit is designed to provide learner with knowledge and skills of operating a power tillers, Implement and Equipment

## **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Recognize Power Tiller and attachments
- 2. Operate Power tiller for tillage operations
- 3. Operate Power Tiller for crop harvesting and other operations

## Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Witness Testimony (WT)
- 4. Personal Statement (PS)
- 5. Examine Work Product (WP)

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	vide vpe	nce		Ev Re No	nce Pa	ge
LO 1:	1.1	Identify Power Tiller.						
Recognize	1.2	Identify different components of Power Tiller						
Power Tiller	1.3	Carry out preparatory checks for safe operation						
and attachments	1.4	Identify tillage implements use on power tillers						
LO 2:	2.1	Select implements for tillage operations:						
Operate	2.2	Couple the tillage implement to power tiller						
Power tiller	2.3	Select operation speed						
for tillage	2.4	Carry out selected operation						
operations	2.5	Use Power Tiller to till the land.						
	2.6	Secure the equipment after operations						
LO 3: Operate	3.1	Select appropriate implements for crop harvesting and other operations						
Power Tiller	3.2	Couple the implement to the power tiller						
for crop	3.3	Select operation speed						
harvesting and other operations	3.4	Use Power Tiller to harvest crop.						

## UNIT 06: Operation of Power Tiller Implement and Equipment

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

## **UNIT 07: Operation of Farm Tractors, Implement and Equipment**

Unit Reference Number: AGR/AEO/L1/07						
Level:	1					
Credit Value:	5					
Guided Learning Hours:	50					

## **Unit Purpose:**

This unit is designed to provide learner with basic knowledge of farm tractors, implement and equipment

## **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Understand Farm Tractors, Implement and Equipment
- 2. Recognize components of the tractor concerned with driving
- 3. Carryout tractor pre-trip inspection
- 4. Recognize the hitching and adjustment components of a tractor

## Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Witness Testimony (WT)
- 4. Personal Statement (PS)
- 5. Examine Work Product (WP)
- 6. Professional Discussion (PD)

## UNIT 07: Operation of Farm Tractors, Implement and Equipment

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA		Evidence Type			Туре		Evi Ref No.	ice Pag	şe
The learner will:		The learner can:		1	r	1		- 1	 		
LO1:	1.1	Describe a tractor									
Understand Farm	1,2	Recognise types of tractor implement									
Tractors, Implement and	1.0	and equipment									
Equipment	1.3	Identify tractor implement and									
	1.4	equipment									
	1.4	Recognize different types of tractors									
	1.5	Distinguish between different types of tractors									
L02:	2.1	Describe major components of tractor.									
Recognize components of	2.2	Explain the procedure for coupling									
the tractor concerned		tractor implement or equipment									
with driving	2.3	Explain the procedure for driving tractor									
	2.4	Identify road traffic signs and symbols									
L03:	3.1	Check water level in the radiator									
Carryout tractor pre-trip inspection	3.2	Check engine oil level									
	3.3	Check fuel level									
	3.4	Check air pressure of tires									
	3.5	Check hydraulic level									
	3.6	Check heads and trafficating lights									
	3.7	Check for lose bolts and knots and retied									
LO 4: Recognize the hitching and adjustment components of a tractor	4.1	Identify the following: • three-point linkages, • check chains, • stabilizers, • hydraulic controls for draft and									
		<ul><li>position</li><li>power take-off(PTO),</li><li>drawbar.</li></ul>									
	4.2	<ul> <li>Explain the classes of implements:</li> <li>fully mounted,</li> <li>semi-mounted</li> <li>trailed implements.</li> </ul>									
	4.3	Hitch an implement to three-point linkages									
	4.4	Couple an implement to power take-off(PTO),									
	4.5	Couple an implement to drawbar									

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	

## UNIT 08: OPERATION OF THRESHING, SHELLING AND DECORTICATING EQUIPMENT

Unit Reference Number: AGR/AEO/L1/08							
Level:	1						

Credit Value:	4
Guided Learning Hours:	40

## **Unit Purpose:**

This unit is designed to provide learner with knowledge and skills of threshing, shelling and decorticating

## **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Understand threshing, shelling and decorticating
- 2. Understand threshing equipment
- 3. Understand shelling equipment
- 4. Understand decortication equipment

## Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Witness Testimony (WT)
- 4. Personal Statement (PS)
- 5. Examine Work Product (WP)

## UNIT 08: OPERATIONS OF THRESHING, SHELLING AND DECORTICATING EQUIPMENT

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type			Туре		R	vide ef. Io.	nce Pa	
L01:	1.1	Explain threshing, shelling and									
Understand threshing,		decortication									
shelling and	1.2	Differentiate between threshing,									
decorticating		shelling and decorticating									
	1.3	Describe threshing, shelling and									
		decorticating equipment									
	1.4	Use thresher, sheller and decorticating									
		equipment appropriately									
	1.5	Store and Secure the equipment after									
		use									
L02:	2.1	Identify threshing equipment									
Understand threshing	2.2	Identify components of threshing									
equipment		equipment									
	2.3	Select threshing equipment for a									
		specific crop									
	2.4	Select appropriate power unit for									
		threshing equipment in 2.3 above									
	2.5	Carryout concave cylinder adjustment									
	2.6	Carryout threshing operations									
L03:	3.1	Identify shelling equipment									
Understand shelling	3.2	Identify components of shelling									
equipment		equipment									
	3.3	Select shelling equipment for a									
		specific crop									
	3.4	Select appropriate power unit for									
		shelling equipment in 3.3 above									
	3.5	Carryout concave cylinder adjustment									
	3.6	Carryout shelling operations									
LO 4:	4.1	Identify decortication equipment									
Understand	4.2	Identify components of decortication	1		1				1		
decortication equipment		equipment								l	
	4.3	Select decortication equipment for a									
		specific crop									
	4.4	Select appropriate power unit for							1		
		decortication equipment in 2.3 above									
	4.5	Carryout concave cylinder adjustment							1		
	4.6	Carryout decortication operations							1		

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

## NATIONAL SKILLS QUALIFICATION

# AGRICULTURAL EQUIPMENT OPERATION

# **LEVEL 2**

FEBRUARY, 2025

## NATIONAL OCCUPATIONAL STANDARDS AGRICULTURAL EQUIPMENT OPERATION LEVEL 2

## **GENERAL INFORMATION**

## **QUALIFICATION PURPOSE**

This qualification is aimed at developing a learner as Agricultural Equipment Operator, and shall be expected to have knowledge and competences in the use and operation of modern farm equipment for tilling, planting, etc.

## **QUALIFICATION OBJECTIVES**

To achieve this qualification, the learner should be able to:

- Operate primary and secondary tillage equipment
- Operate planting and transplanting equipment
- Operate Chemical fertilizer and manure application equipment.
- Operate crop protection equipment.
- Operate harvesting equipment.
- Operate Crop processing and storage equipment
- Operate Livestock mechanization equipment
- Carryout livestock sanitary and hygiene practices
- Demonstrate effective communication and interpersonal relationship at work place.
- Observe health and safety at the work place.
- Demonstrate Team Work at the work place.

S/No	Reference Number	Units	Credit Value	Guided Learning Hours	Remarks
1	AGR/AEO/L2/01	Occupational Health and Safety	2	20	Culled from level 1
2	AGR/AEO/L2/02	Communication and Interpersonal Skills	2	20	Culled from level 1
3	AGR/AEO/L2/03	Team Work	1	10	Culled from level 1
4	AGR/AEO/L2/04	Operation of Tillage Equipment	3	30	Level 2
5	AGR/AEO/L2/05	Livestock Sanitary And Hygiene	2	20	Level 2
6	AGR/AEO/L2/06	Operation of Chemical fertilizer and manure application Equipment	3	30	Level 2
7	AGR/AEO/L2/07	Operation of Crop Protection Equipment	3	30	Level 2
8	AGR/AEO/L2/08	Operation of Crop processing and storage equipment	3	30	Level 2
SUBT	DTAL	<b></b>	19	190	
		OPTIONAL UNITS			Level 2
9	AGR/AEO/L2/09	Operation of Harvesting Equipment	4	40	Level 2
10	AGR /AEO/L2/10	Operation of Livestock mechanization equipment	4	40	Level 2
11	AGR/AEO/L2/11	Operation of Planting and Transplanting Equipment	3	30	Level 2
SUBTO	DTAL		11	110	
Total			30	300	

#### Mandatory Units

NOTE: This is a 30-credit unit qualification. To achieve this qualification; Learners are required to achieve all credits units in the mandatory units and additional two (2)units in the optional units.. Each Credit is equivalent to 10 Guided Learning Hours (GLH). The Total Learning Hours will therefore consist of the GLH plus the independent learning hours of the Learner, which is generally 50% – 150% of the GLH. The actual Total Learning Hours for each Credit will then be a minimum of 15 hours.

## **UNIT 01: Occupational Health and Safety**

Unit Reference Number: AGR/AEO/L2/01

Level:2Credit Value:2Guided Learning Hours:20

**Unit Purpose**: This unit specifies the competencies required to demonstrate safe work practices. It involves learning about workplace safety, correct use of signs and symbols, identifying and reducing risks of hazards in the work environment.

## **Objectives:**

At the end of this unit, the learner should be able to:

- Demonstrate Safe working Practices and Instructions
- Understand Safety Hazards and risks
- Know how to take appropriate actions during accident/injury
- Demonstrate safe work habit and clean work environment

## Unit assessment requirements/ evidence requirement

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/oral questions (DO).
- 2. Question and Answer (QA).
- 3. Professional Discussion (PD).
- 4. Personal Statement (PS)
- 5. Examine Work Product
- 6. Witness Testimony (WT)

## UNIT 01: Occupational Health and Safety

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	 Evidence Type			Evidence Ref. Page No.				
The learner will:		The learner can:								
LO 1: Identify	1.1	Explain safety work practice and instructions.								
the various safe	1.2	Explain safety signs and symbols.								
working	1.3	Identify safety signs and symbols								
Practices and Instructions	1.4	Describe how to work in accordance with health and safety best practices.								
LO 2: Recognize	2.1	Explain various work environment hazards.								
Safety Hazards	2.2	Describe ways to reduce risk in workplace								
and risks	2.2	Describe ways to avoid common workplace hazards								
LO 3: Understand the	3.1	Describe the safe access and exit routes in the work environment.								
safe work habit and clean work	3.2	Explain safe work habit and clean work environment.								
environment	3.3	Use proper Personnel Protective Equipment (PPE) at workplace								
	3.4	Explain how to dispose all wastes appropriately to designated waste facilities								

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

## **UNIT 02: Communication and Interpersonal Skills**

Unit Reference Number: AGR/AEO/L2/02 Level: 2 Credit Value: 2 Guided Learning Hours: 20

**Unit Purpose:** This unit specifies the competencies required to demonstrate good communication and interpersonal skills. It involves the ability to read and understand documented instructions and the ability to know how to communicate respectfully when in a bad mood or under pressure.

#### **Objectives:**

At the end of this unit, the learner should be able to:

- Understand the importance of good communication
- Demonstrate how to follow documented instructions
- Know how to create documented instructions

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/oral questions (DO).
- 2. Question and Answer (QA).
- 3. Professional Discussion (PD).
- 4. Personal Statement (PS)
- 5. Examine Work Product (WP)
- 6. Witness Testimony (WT)

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	 Evidence Type			Evidence Ref. Page No.		
The learner will:		The teamer can.	_					
LO 1: Recognize	1.1	Define communication.						
the concept of communication	1.2	Distinguish between the different types of communication.						
	1.3	Select factors to be considered when using each method in 1.2.						
LO 2: Understand	2.1	State the reasons for using signs and symbols in workshops, offices and public places.						
signs and symbols used to	2.2	Explain why good communication is important.						
communicate.	2.3	Draw signs and symbols commonly used in work spaces.						
	2.4	Interpret signs and symbols commonly used in work spaces.						
LO 3: Understand information from any given document.	3.1 3.2 3.3	Comprehend information from: - <ul> <li>charts</li> <li>log books</li> <li>warning instructions</li> <li>manuals</li> <li>operation procedures, etc.</li> </ul> State reasons for good understanding of information given in the documents in 3.1. State steps necessary when skipping through hellowing formation given and the steps in the						
		bulky information manuals.						

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

## **UNIT 03: TEAM WORK**

Unit Reference Number: AGR/AEO/L2/03 Level: 2 Credit Value: 1 Guided Learning Hours: 10

**Unit Purpose**: This unit is aimed to provide the leaner, the necessary knowledge and skills required to develop team spirit and positive working relationship with the fellow operators in Agricultural Equipment Operation.

## **Objectives:**

At the end of this unit, the learner should be able to:

- Develop positive working relationship with colleagues in the work environment
- Take responsibilities within the team
- Comply with policy and regulations of organization.

## Unit assessment requirements/ evidence requirement

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Witness Testimony (WT)
- 4. Personal Statement (PS)
- 5. Professional Discussion (PD)

## UNIT 03: Team Work

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA		Evidence Type						f.	nce Paş	
The learner will:		The learner can:										
LO 1: Understand	1.1	Define Team/Teamwork										
Teamwork in	1.2	State the benefit (s) of working as a Team										
Equipment Operation	1.3	State the challenges of Teamwork										
LO 2:	2.1	Recognise the qualities of a good Leader,										
Understand	2.2	Explain the benefits of good Leadership										
Leadership in Teamwork	2.3	State the benefits of loyalty and confidentiality										
LO 3: Understand	3.1	Recognise the essence of good working relationship in a Team										
good working relationship in a Team	3.2	Explain the contributions of other Team members to ensure good health and social wellbeing in the workplace.										
	3.3	Identify strategies for good working relationship										
	3.4	Explain organizational code of conduct for own job and teamwork.										
	3.5	Report activities of the teamwork that may negatively affect organizational code of conduct to the appropriate authority.										

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

**Guided Learning Hours:** 

## **UNIT 04: Operation of Tillage Equipment**

Unit Reference Number: AGR/AEO/L2/04							
Level:	2						
Credit Value:	3						

## **Unit Purpose:**

This unit is design to provide the learner with knowledge and skills for the operation of Tillage equipment.

## **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Understand tillage implement
- 2. Carryout tillage operation using primary tillage implement

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- 3. Carryout tillage operation using secondary tillage Implement
- 4. Understand tillage techniques

## Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Personal Statement (PS)
- 4. Witness Testimony (WT)
- 5. Examine Work Product (WP)

LEARNING 1			E.	vida	nee			Evidence					
OBJECTIVE		PERFORMANCE CRITERIA	Evidence										
			Туре							Page			
(LO)								No	•				
		The learner can:											
The learner													
will:													
LO 1:	1.1	Distinguish between primary and secondary											
Understand		tillage Implement.											
tillage	1.2	Recognize the functions of various tillage											
implement		Implement											
1													
	1.3	identify the factors in tillage operation.											
	1.5	identity the lactors in mage operation.											
LO 2:	2.1	Select appropriate implement for primary											
	2.1												
Carryout tillage	0.0	tillage operation											
operation using	2.2	Explain the effects of tillage on physical											
primary tillage		properties of the soil											
implement													
	2.3	Carry out primary Tillage operation.											
	2.4	Observe health and safety in carrying out											
		primary tillage operation											
LO 3:	3.1	Select appropriate implement for secondary											
Carryout tillage		tillage operation											
operation using	3.2	Explain the effects of tillage on physical											
secondary		properties of the soil											
tillage													
Implement	3.3	Carry out primary Tillage operation.											
	3.4	Observe health and safety in carrying out											
	5.4	secondaryS tillage operation											
	11								_				
LO 4:	4.1	Carryout depth control during tillage											
Understand		operation											
tillage	4.2	Carryout speed control of the tractor											
techniques	4.3	Perform soil moisture management											
	1		1	1	1	1				1			

## **UNIT 04: Operation of Tillage Equipment**

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date
#### **UNIT 05: LIVESTOCK SANITARY AND HYGIENE**

Unit Reference	Number:	AGR/	/AEO/L	2/05
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Level: 2

Guided	Learning Hours:	20

#### **Unit Purpose:**

Credit Value: 2

This unit is design to provide learners with the knowledge and skills of livestock sanitation and hygiene

#### **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Understand livestock sanitary and hygiene
- 2. Understand animal housing and environment
- 3. Understand animal health and hygiene
- 4. Know feed and water hygiene
- 5. Know farm sanitation and disinfection
- 6. Know personnel hygiene and bio-security

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Personal Statement (PS)
- 4. Witness Testimony (WT)

#### UNIT 05: LIVESTOCK SANITARY AND HYGIENE

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	vide vpe	nce	•	Evido Ref. No.	ence Pag	şe.
LO 1:	1.1	Define sanitary and hygiene						
Understand livestock	1.2	Identify best standard practice in livestock sanitation and hygiene						
sanitary and hygiene	1.3	Identify equipment for livestock sanitation and hygiene.						
LO 2:	2.1	Describe proper waste management						
Understand	2.2	Recognize adequate space and comfort						
animal housing and environment	2.3	Clean and dry living condition						
LO 3:	3.1	Carryout proper handling/restraints						
Understand	3.2	Perform monitoring for disease						
animal health	3.3	Provide regular vetenary care:						
and hygiene		Checkup						
		<ul><li>Vaccination</li><li>Parasite control</li></ul>						
L O 4:	4.1	Use clean and fresh water for feeding						
Know feed and	4.2	Carryout feed storage and handling						
water hygiene	4.3	Carryout feed quality control						
LO 5:	5.1	Identify cleaning and disinfection equipment						
Know farm	5.2	Carryout regular cleaning and disinfection						
sanitation and	5.3	Carryout proper disposal of dead livestock						
disinfection	5.4	Perform pest and rodents control						
LO 6:	6.1	Use PPE for personnel hygiene						
Know personnel hygiene and bio-	6.2	Observe hygiene (hand washing after handling animal or working in the area)						
security	6.3	Carryout bio-security protocol.						

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

#### **UNIT 06: Operation of Chemical Fertilizer and Manure Application Equipment**

Unit Reference Number:	AGR/AEO/L2/06
Level:	2
Credit Value:	3
<b>Guided Learning Hours:</b>	30

#### **Unit Purpose:**

This unit is designed to provide the learner with knowledge and skills for the operation of Chemical fertilizers and Manure application equipment

#### **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Recognize equipment for application of chemical fertilizer and manure.
- 2. Carryout application of chemical fertilizer using a broadcaster.
- 3. Carryout application of manure using a spreader.

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Personal Statement (PS)
- 4. Witness Testimony (WT)

#### UNIT 06: Operation of Chemical Fertilizer and Manure Application Equipment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	ide pe	nce		iden f. Pa	
LO 1:	1.1	Distinguish between the different equipment					
Recognize	<b>T</b> .T	for applying chemical fertilizers and manure.					
equipment for	1.2	Explain the functions of different equipment					
application of	1.2	for applying chemical fertilizers and manure.					
chemical	1.3	Select appropriate equipment for chemical					
fertilizer and	1.5	fertilizer and manure application					
manure.	1.4	Use appropriate PPE in chemical fertilizer					
	1.7	and manure application					
LO 2:	2.1	Identify a broadcaster					
Carryout	2.2	Couple the broadcaster to the 3-point linkage					
application of		of a tractor					
chemical	2.3	Load the broadcaster with fertilizer					
fertilizer using a	2.4	Couple the drive to the Power Take-Off (PTO)					
broadcaster		shaft of the tractor.					
	2.5	Operate broadcaster to apply chemical					
		fertilizer.					
	2.6	Demonstrate health and safety in chemical					
		fertilizer application					
LO 3:	3.1	Identify a manure spreader					
Carryout	3.2	Couple the spreader to 3-point linkage.					
application of	3.3	Break manure into fragments using a beater.					
manure using a	3.4	Load the manure into the trailer.					
spreader.	3.5	Select appropriate speed for the operation of					
		the spreader					
	3.6	Broadcast the manure using the mechanical				T	
		manure spreader.					
	3.7	Demonstrate health and safety in manure					
		application					

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

#### **UNIT 07: Operation of Crop Protection Equipment**

Level:	2
Credit Value:	3
<b>Guided Learning Hours:</b>	30

#### Unit Purpose:

This unit is design to provide the learner with knowledge and skills for the operation of Crop Protection Equipment

#### **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Understand crop protection equipment operation.
- 2. Recognize crop protection Equipment
- 3. Carry out crop protection operation

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Personal Statement (PS)
- 4. Witness Testimony (WT)

#### **UNIT 07: Operation of Crop Protection Equipment**

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	 vide vpe	nce		Ev Re No	ice Pagi	9
The learner will:		The learner can:						
LO 1: Understand crop	1.1	Identify the personal protective equipment (PPE) for crop protection operation						
protection equipment	1.2	Use the personal protective equipment (PPE) for crop protection operation						
operation.	1.3	Discuss environmental concerns during crop protection operation: • wind direction, • weather etc.						_
	1.4	Describe common types of chemicals use in crop protection practices						
	1.5	Identify types of agro-chemicals based on time of application:						
	1.6	Identify types of agro-chemicals based on mode of action						
LO 2:	2.1	Identify the crop protection equipment.						
Recognize crop	2.2	Describe the function of sprayers						
protection	2.3	Identify the different types of sprayers:						
Equipment	2.4	Explain the working principles of common types of sprayers.						
LO 3:	3.1	Select appropriate chemical for selected crops						
	3.2	Assemble/couple the spraying equipment						
Carry out crop protection operation	3.3	Mix the chemicals for crop protection according to manufacturer's instruction as available on the label.						
	3.4	Carry out application of crop protection chemicals on plants.						
	3.5	Dismantle equipment after use for cleaning						
	3.6	Clean the equipment after operation.						
	3.7	Demonstrate health and safety when carrying						
		out the crop protection operation.						
	3.8	Store and secure equipment after usage.						

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

#### **UNIT 08: Operation of Crop Processing and Storage Equipment**

Unit Reference Number: AGR/AEO/L2/08						
Level:	2					
Credit Value:	3					

Guided Learning Hours: 30

#### **Unit Purpose:**

This unit is design to provides the learner with knowledge and skills for operating crop processing and storage equipment

#### **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Recognize different crop processing equipment
- 2. Perform processing operation on farm crops.
- 3. Recognize storage
- 4. Carry out Storage of crop

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human

development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Personal Statement (PS)
- 4. Witness Testimony (WT)

#### UNIT 08: Operation of Crop Processing and Storage Equipment

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA		Evidence Type				ce Page
The learner will:		The learner can:						
LO 1:	1.1	Identify types of processing methods						
Recognize	1.2	Identify common crop processing equipment						
different crop	1.3	Select the equipment appropriately for						
processing equipment		processes in 1.1 above						
LO 2:	2.1	Identify crop for processing						
Perform processing	2.2	Identify processing methods for different crops.						
operation on	2.3	Select processing equipment.						
farm crops.	2.4	Carry out a processing operation for specific						
		food crop						
	2.5	Demonstrate health and safety in carrying						
		out processing operations						
LO 3:	3.1	Recognize types of storage facilities and						
Recognize		equipment.						
storage facilities	3.2							
/equipment	3.3	Identify factors affecting safe storage						
	3.4	Describe methods of safe storage						
		considering health and safety.						
LO 4:	4.1	Identify Crop for storage						
Carry out Storage	4.2	Measure the moisture content using small						
of crop		tool like moisture meter						
	4.3	Determine if moisture content is appropriate						
	4.4	Select appropriate structure for crop storage						
	4.5	Carry out storage of crop considering health						
		and safety						

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

#### **UNIT 09: Operation of Harvesting Equipment**

#### Unit Reference Number: AGR/AEO/L2/09

Level: 2

Credit Value: 4

**Guided Learning Hours: 40** 

#### **Unit Purpose:**

This unit is design to provide the learner with knowledge and skills for operating harvesters **Objectives:** 

At the end of this unit, the learner should be able to:

- 1. Understand the working principles of harvesters
- 2. Understand operation of harvesters.
- 3. Perform harvesting operations of grains.
- 4. Carry out forage harvesting.
- 5. Carry out Threshing / shelling Operation.

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Personal Statement (PS)
- 4. Witness Testimony (WT)

#### **UNIT 09: Operation of Harvesting Equipment**

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:		Evidence Type			Evideı Ref. No.		nce Paş		
The learner will:											
LO 1:	1.1	Identify types of harvesting Equipment									
Understand the working	1.2	Describe functional components of harvesting Equipment.									
principles of harvesting	1.3	Explain the working principles for different harvesting Equipment.									
Equipment.	1.4	Describe the challenges associated with working principles of operations in 1.3 above									
LO 2:	2.1	Describe the operations of a forage harvester.									
Understand	2.2	Describe the operations of a grain harvester.									
operation of	2.3	Carry out adjustments of forage harvester									
harvesters.	2.4	Perform adjustments of grain harvester									
	2.5	Distinguish between operation and adjustment procedures of harvesters.									
LO 3:	3.1	Recognize the maturity stage of the crop									
Perform	3.2	Differentiate between maturity and ripeness									
harvesting operations of	3.3	Identify the appropriate equipment for harvesting the crop									
grains	3.4	Recognize the appropriate moisture content and related conditions before carrying out the harvesting operation									
	3.5	Select the harvesting equipment to match the planting techniques of the crop									
	3.6	Carryout the harvesting operation.									
LO 4: Carry out forage	4.1	Determine the maturity of the grass for the operation									
harvesting	4.2	Identify the specific tools and equipment for the operation									
	4.3	Select the tools and equipment for the operation									
	4.4	Perform the forage harvesting operation for hay production									
LO 5:	5.1	Recognize the thresher/sheller type to									
Carry out		perform the operation based on crop									
Threshing /	5.2	Identify the proper moisture content of the					Ī	Ī	Ī		
shelling		crop to be threshed/shelled									
Operation	5.3	Select the equipment for the operation									
	5.4	Perform minor adjustments on sheller/thresher									
	5.5	Perform threshing/shelling operation									

	5.6	Bag appro	and opriatel	Store v	the	threshed	crop					
				,								
Learner's Signatu	re:								Dat	:e:		
Assessor's Signat	ure:								Da	te:		
	_											
IQAM Signature (i	f sam	pled)							Da	te:		
EQAM Signature (	if sam	pled)							Da	te		

#### **UNIT 10: Operation of Livestock Mechanization Equipment**

Unit Reference Number: AGR/AEO/L2/10
Level: 2
Credit Value: 4
Guided Learning Hours: 40

#### **Unit Purpose:**

This unit is design to provide learners with the knowledge and skills of feeding and milking operation in livestock industry.

#### **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Recognize livestock feeding equipment
- 2. Use of feeding equipment
- 3. Recognize milking equipment
- 4. Carry out Milking operation

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Personal Statement (PS)
- 4. Witness Testimony (WT)

#### UNIT 10: Operation of Livestock Mechanization Equipment

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type			R	 ence Page	
The learner will:		The learner can:						
LO 1:	1.1	Identify different feeding systems						
Recognize	1.2	Identify different feeding equipment						
livestock	1.3	Distinguish the different methods of feeding						
feeding		livestock						
equipment	1.4	Identify different handling equipment for						
		livestock						
LO 2:	2.1	Recognize the feed materials.						
Use of feeding	2.2	Recognize equipment suitable for feeding						
equipment		livestock.						
	2.3	Perform conveyance of livestock feed						
	2.4	Demonstrate safe handling of livestock feed						
LO 3:	3.1	Identify types of milking methods						
Recognize	3.2	List the different milking equipment						
milking	3.3	Identify Pasteurization methods						
equipment	3.4	Identify equipment for pasteurization						
	3.5	Explain pasteurization process						
	3.6	Demonstrate health and safety in handling						
		milking equipment						
L O 4:	4.1	Select animal for Milking						
Carry out	4,2	Select milking method						
Milking	4.3	Carry Out Milking						
operation	4.4	Covey milk for storage and post milking						
		operation						
	4.5	Demonstrate health and safety in conveying						
		milk and storage						

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

#### **UNIT 11: Operation of Planting and Transplanting Equipment**

Level:	2
Credit Value:	3
<b>Guided Learning Hours:</b>	30

#### **Unit Purpose:**

This unit is designed to provide learner with knowledge and skills of planting and transplanting using

farm equipment

#### **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Recognize various planting/transplanting equipment and their functions
- 2. Calibrate seed drill/planter.
- 3. Perform planting operation using a tractor mounted seed drill/planter
- 4. Perform planting operation with a directly mounted seed drill/planter

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Personal Statement (PS)
- 4. Witness Testimony (WT)

#### UNIT 11: Operation of Planting and Transplanting Equipment

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA		Evidence Type							f.	nce Pag	
The learner will:		The learner can:		1	1	1	 T						
LO 1:	1.1	Discuss environmental conditions favorable for											
Recognize various		successful planting/transplanting					 						
planting/transplanting	1.2	Explain the agronomic practices required for											
equipment and their		planting and transplanting					 						
functions	1.3	Identify the various planting equipment					 						
	1.4	Identify the various manual transplanting											
		equipment											
	1.5	Explain the functions of various											
		planting/transplanting equipment.											
	1.6	Distinguish between planting and transplanting											
		operations											
LO 2:	2.1	List the types of seed drills/planter											
Calibrate seed	2.2	Identify essential components of seed											
drill/planter.		drills/planter											
	2.3	Explain the operations in seed drill/planter											
	2.4	Perform the lifting of the drive-wheel with a jack											
	2.5	Carry out loading of the seeds into the hopper											
	2.6	Determine one revolution of the seed plate by											
		marking the wheel											
	2.7	Determine the seed delivery in one revolution											
		turn of the wheel											
	2.8	Measure the quantity of seed delivered in one											
		revolution by counting											
	2,9	Measure the quantity of seed delivered in one											
		revolution to determine quantity of seed to be											
		planted per hectare											
LO 3:	3.1	Mount the seed drill/planter using the 3-point											
Perform planting		linkage											
operation using a	3.2	Adjust the seed drill/planter appropriately											
tractor mounted seed	3.3	Carryout planting operation with a directly			1								
drill/planter.		mounted seed drill/planter											
LO 4:	4.1	Couple the seed drill/planter directly to the			1				$\neg$				
Perform planting		tractor											
operation with a	4.2	Adjust the seed drill/planter appropriately			1				$\neg$				
directly mounted	4.3	Carryout planting operation with a directly			1				$\neg$				
seed drill/planter		mounted seed drill/planter											

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

NATIONAL SKILLS QUALIFICATION

## AGRICULTURAL EQUIPMENT OPERATION

### LEVEL 3

FEBRUARY, 2025

#### NATIONAL OCCUPATIONAL STANDARDS AGRICULTURAL IMPLEMENTS MECHANICS LEVEL 3

#### **GENERAL INFORMATION**

#### **QUALIFICATION PURPOSE**

This qualification is designed to produce a trainee who should be able to exhibit skills and knowledge necessary to operate land clearing and development equipment farm waste handling and management Equipment. The Learner should be able to demonstrate skills and competence required in operating, land clearing and development equipment farm waste handling and management related equipment.

#### **QUALIFICATION OBJECTIVES**

To achieve this qualification, the learner should be able to:

- Operate land clearing and development equipment
- Operate land reclamation equipment
- Operate Farm Wastes Handling equipment.
- Carryout treatment, storage and utilization of farm waste
- Observe health and safety of work place.
- Demonstrate Communication and Interpersonal Skills
- Demonstrate Team Work in Agricultural Equipment Operation

S/No	Reference Number	NOS Title	Credit	Guided
			Value	Learning
				Hours
1	AGR/AEO/L3/01	Operation of Land clearing and development equipment	8	80
2	AGR/AEO/L3/02	Operation of land reclamation equipment	8	80
3	AGR/AEO/L3/03	Operation of Farm Wastes Handling equipment	8	80
4	AGR/AEO/L3/04	Farm Wastes Management	8	80
5	AGR/AEO/L3/06	Occupational Health and Safety	2	20
6	AGR /AEO/L3/05	Communication and Interpersonal Skills	2	20
7	AGR/AEO/L3/07	Team Work in Agricultural Equipment Operation	1	10
Total			37	370

#### **Mandatory Units**

NOTE: This is a 37-credit unit qualification. To achieve this qualification; Learners are required to achieve all credits units in the mandatory units.. Each Credit is equivalent to 10 Guided Learning Hours (GLH). The Total Learning Hours will therefore consist of the GLH plus the independent learning hours of the Learner, which is generally 50% – 150% of the GLH. The actual Total Learning Hours for each Credit will then be a minimum of 15 hours.

#### Unit 01: Operation of Land Clearing and Development Equipment

Unit Reference Number: AGR/AEO/L3	/01
Level:	3
Credit Value:	8
Guided Learning Hours:	80

#### **Unit Purpose:**

This unit is designed to provide the learner with knowledge and skills to operate land clearing and development equipment

#### **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Understand Land clearing and development equipment
- 2. Understand procedures for land Clearing
- 3. Understand procedures for land Development
- 4. Carryout land clearing
- 5. Carryout land Development of land.

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Work Products (WP).
- 4. Professional Discussion (PD)
- 5. Witness Statement (WS)
- 6. Personal Statement (PS)

#### UNIT 01: Operation of Land Clearing and Development Equipment

LEARNING OBJECTIVE		PERFORMANCE CRITERIA		Evidence Type										vidence ef. Page		
(LO)							No	D.								
		The learner can:														
The learner																
will: LO 1:	1 1	Evaluin land clearing methods														
Understand	1.1	Explain land clearing methods					_									
Land clearing	1.2	Identify equipment for land clearing and development														
and	1.3	Describe land clearing and development														
development	1.5	equipment and their uses														
equipment	1.4	Recognize factors for selecting land														
		development practices														
	1.5	Recognize factors for selecting land														
		development equipment														
	1.6	Demonstrate the functions and adaptability														
		of land development equipment														
LO 2:	2.1	Explain vegetation removal														
Understand	2.2	Explain debris removal														
procedures for	2.3	Explain land grading and leveling														
land Clearing	2.4	Explain stump and root removal														
	2.5	Explain burning and chemical treatment														
LO 3:	3.1	Identify the different land tenure systems														
Understand	3.2	Identify land survey equipment														
procedures for	3.3	Interpret farm map														
land	3.4	Interpret soil test result														
Development.	3.5	Install irrigation system.					_									
	3.6	Install drainage system														
LO 4:	4.1	Carryout vegetation removal														
Carryout land clearing	4.2	Carryout debris removal														
clearing	4.3	Carryout land grading and leveling														
	4.4	Carryout stump and root removal														
	4.5	Carryout burning and chemical treatment														
LO 5:	5.1	Select the appropriate equipment for land														
Carryout Development of	<u>Б</u> О	development.	-													
land.	5.2 5.3	Perform pre-operation check on equipment Carryout land development on a cleared land				$\vdash$										
lanu.	5.5	canyour tand development on a cleared land														

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

#### **Unit 02: Operation of Land Reclamation Equipment**

Unit Reference Number: AGR/AEO/L3	s/02
Level:	3
Credit Value:	8
Guided Learning Hours:	80

#### **Unit Purpose:**

This unit is designed to provide the learner with knowledge and skills to operate land reclamation equipment

#### **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Understand Land Reclamation
- 2. Know factors to considered in land Reclamation
- 3. Know land reclamation equipment

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Work Products (WP).
- 4. Professional Discussion (PD)
- 5. Witness Statement (WS)
- 6. Personal Statement (PS)

LEARNING OBJECTIVE		PERFORMANCE CRITERIA Evidence Type					Re	ef.	nce Pag	e
(LO) The learner will:		The learner can:					No	).		
LO 1:	1.1	Explain physical reclamation practices								
Understand	1.2	Discuss soil reclamation								
Land Reclamation	1.3	Explain agroforestry and afforestation								
LO 2: Know factors to	2.1	Explain factors for selecting reclamation equipment/practice								
consider in land	2.2	Discuss social factors in land reclamation								
Reclamation	2.3	Discuss economic factors land reclamation								
LO 3:	3.1	Identify equipment for land reclamation								
Know land	3.2	Describe land reclamation equipment								
reclamation equipment	3.3	<ul> <li>Select equipment based on:</li> <li>Type and size of equipment</li> <li>Technological advancement</li> <li>Energy efficiency</li> </ul>								
	3.4	Identify the equipment to be used for land reclamation								
	3.5	Carryout land reclamation on a degraded land								

#### UNIT 02: Operation of Land Reclamation Equipment

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

#### Unit 03: Operation of Farm Waste Handling Equipment

Unit Reference Number: AGR/AEO/L3/03							
Level:	3						
Credit Value:	8						
Guided Learning Hours:	80						

**Unit Purpose:** This unit is designed to provide the learner with knowledge and skills to operate farm waste handling equipment

#### **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Understand farm waste
- 2. Understand management of farm waste
- 3. Know the farm waste Handling equipment
- 4. Know farm waste disposal methods

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Work Products (WP).
- 4. Professional Discussion (PD)
- 5. Witness Statement (WS)
- 6. Personal Statement (PS)

#### UNIT 03: Operation of Farm Waste Handling Equipment

LEARNING OBJECTIVE (LO)				Evidence Type								R	 nce Page	ē
The learner will:														
LO 1:	1.1	Explain organic waste in the farm												
Understand	1.2	Explain inorganic waste in the farm												
farm waste	1.3	Explain hazardous waste												
	1.4	Discuss the waste legislation and regulations												
		in your work environment.												
LO 2:	2.1	Explain composting												
Understand	2.2	Explain aerobic and anaerobic digestion												
management of	2.3	Describe recycling of farm waste												
farm waste	2.4	Discuss proper disposal of farm waste												
LO 3:	3.1	Identify equipment of farm waste handling												
Know the farm	3.2	Select farm waste transportation handling												
waste Handling		equipment												
equipment	3.3	Couple farm waste equipment												
LO 4:	4.1	Carryout farm waste gathering/collection	1											
Know farm	4.2	Transport farm waste												
waste disposal	4.3	Dispose farm waste considering health and												
methods		safety												

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

#### UNIT 04: Farm Waste Management

Unit Reference Number:	AGR/AEO/L3/04
Level:	3
Credit Value:	8
Guided Learning Hours:	80

#### **Unit Purpose:**

This unit is designed to provide the learner with knowledge and skills of treatment, storage and utilization of farm waste

#### **Objectives:**

At the end of this unit, the learner should be able to:

- 1. Understand farm Waste Management Practices
- 2. Identify the equipment used for farm waste storage
- 3. Recognize the equipment used for waste treatment/upgrading
- 4. Identify the equipment used for farm waste utilization

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out management of farm wastes handling equipment in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Work Products (WP).
- 4. Professional Discussion (PD)
- 5. Witness Statement (WS)
- 6. Personal Statement (PS

#### Unit 04: Farm Wastes Management

		PERFORMANCE CRITERIA	Evidence Type					nce	
<b>OBJECTIVE (LO)</b>							Re		Page
The learner will:		The learner can:						•	
LO 1:	1.1	Identify Waste management practices							
Understand farm	1.2	Discuss the health implications of different							
Waste		farm waste management practice							
Management	1.3	Identify the uses/application of the stated farm							
Practices		waste practices							
	1.4	List the equipment used for farm waste							
		collection							
	1.5	Identify the uses/application of farm waste							
		collection equipment							
	1.6	Carryout maintenance of farm waste collection							
		equipment							
LO 2: Identify the	2.1	Recognize the equipment used for farm waste							
equipment used		storage							
for farm waste	2.2	Identify the uses/application of the farm waste							
storage		storage equipment							
	2.3	Explain the methods of selecting appropriate							
		farm waste storage equipment							
	2.4	Explain the working principles of the farm							
		waste storage equipment							
LO 3: Recognize	3.1	Explain the equipment used for farm waste							
the equipment		treatment/ upgrading							
used for waste	3.2	Identify the uses/application of the farm waste							
treatment/		treatment/ upgrading equipment							
upgrading	3.3	Explain the methods of selecting appropriate							
		farm waste treatment / upgrading equipment							
	3.4	Explain the working principles of the farm							
		waste treatment/ upgrading equipment							
LO 4:	4.1	Explain the equipment used for farm waste							
Identify the		utilization (hauled waste spreaders, soil waste							
equipment used		injectors, pumped waste spreaders, biogas							
for farm waste	1.0	production equipment, etc.)							<u> </u>
utilization	4.2	Identify the uses/application of the stated farm							
	4.0	waste utilization equipment							├──┼──
	4.3	Select appropriate farm waste utilization							
	4 4	equipment							├──┼──
	4.4	Explain the working principles of the farm							
		waste utilization equipment							$\vdash$
	4.5	Carryout maintenance of farm waste utilization							
	14	equipment							$\vdash$
	4.6	Demonstrate health, safety and hygiene in							
		waste disposal							

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

#### **UNIT 05: Occupational Health and Safety**

Unit Reference Number: AGR/AEO/L3/05							
Level:	2						
Credit Value:	2						
<b>Guided Learning Hours:</b>	20						

**Unit Purpose**: This unit specifies the competencies required to demonstrate safe work practices. It involves learning about workplace safety, correct use of signs and symbols, identifying and reducing risks of hazards in the work environment.

#### **Objectives:**

At the end of this unit, the learner should be able to:

- Demonstrate Safe working Practices and Instructions
- Understand Safety Hazards and risks
- Know how to take appropriate actions during accident/injury
- Demonstrate safe work habit and clean work environment

#### Unit assessment requirements/ evidence requirement

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/oral questions (DO).
- 2. Question and Answer (QA).
- 3. Professional Discussion (PD).
- 4. Personal Statement (PS)
- 5. Examine Work Product
- 6. Witness Testimony (WT)

#### UNIT 05: Occupational Health and Safety

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA		Evidence Type			ef.	nce Pag	je	
The learner will:		The learner can:								
LO 1: Identify	1.1	Explain safety work practice and instructions.								
the various safe	1.2	Explain safety signs and symbols.								
working	1.3	Identify safety signs and symbols								
Practices and Instructions	1.4	Describe how to work in accordance with health and safety best practices.								
LO 2: Recognize	2.1	Explain various work environment hazards.								
Safety Hazards	2.2	Describe ways to reduce risk in workplace								
and risks	2.2	Describe ways to avoid common workplace hazards								
LO 3: Understand the	3.1	Describe the safe access and exit routes in the work environment.								
safe work habit and clean work	3.2	Explain safe work habit and clean work environment.								
environment	3.3	Use proper Personnel Protective Equipment (PPE) at workplace								
	3.4	Explain how to dispose all wastes appropriately to designated waste facilities								
										_

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

#### **UNIT 06: Communication and Interpersonal Skills**

Unit Reference Number: AGR/AEO/L3/06							
Level:	2						
Credit Value:	2						
<b>Guided Learning Hours:</b>	20						

**Unit Purpose:** This unit specifies the competencies required to demonstrate good communication and interpersonal skills. It involves the ability to read and understand documented instructions and the ability to know how to communicate respectfully when in a bad mood or under pressure.

#### **Objectives:**

At the end of this unit, the learner should be able to:

- Understand the importance of good communication
- Demonstrate how to follow documented instructions
- Know how to create documented instructions

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/oral questions (DO).
- 2. Question and Answer (QA).
- 3. Professional Discussion (PD).
- 4. Personal Statement (PS)
- 5. Examine Work Product (WP)
- 6. Witness Testimony (WT)

the concept of communication 1.2 [ 1.3 5 4 <b>LO 2:</b> 2.1 5 Understand i	The learner can: Define communication. Distinguish between the different types of			/idence Eviden /pe Ref. I No.		
the concept of communication 1.2 [ 1.3 5 4 <b>LO 2:</b> 2.1 5 Understand i						
communication 1.3 5 4 <b>LO 2:</b> 2.1 5 Understand i	Distinguish between the different types of					
LO 2: Understand	communication.					
Understand i	Select factors to be considered when using each method in 1.2.					
Understand i						
	State the reasons for using signs and symbols in workshops, offices and public places.					
	Explain why good communication is important.					
	Draw signs and symbols commonly used in work spaces.					
	Interpret signs and symbols commonly used in work spaces.					
Understand information from any given document. 3.2 i 3.3 S	Comprehend information from: - <ul> <li>charts</li> <li>log books</li> <li>warning instructions</li> <li>manuals</li> <li>operation procedures, etc.</li> </ul> State reasons for good understanding of information given in the documents in 3.1. State steps necessary when skipping through					
	bulky information manuals.					

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

#### **UNIT 07: TEAM WORK**

Unit Reference Number: AGR/AEO/L3/07							
Level:	2						
Credit Value:	1						
Guided Learning Hours:	10						

**Unit Purpose**: This unit is aimed to impact into the leaner, the necessary knowledge and skills required to develop team spirit and positive working relationship with the fellow operators in Agricultural Equipment Operation.

#### **Objectives:**

At the end of this unit, the learner should be able to:

- Develop positive working relationship with colleagues in the work environment
- Take responsibilities within the team
- Comply with policy and regulations of organization.

#### Unit assessment requirements/ evidence requirement

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

- 1. Direct Observation/Oral questions (DO).
- 2. Question and Answer (QA).
- 3. Witness Testimony (WT)
- 4. Personal Statement (PS)
- 5. Professional Discussion (PD)

#### UNIT 07: Team Work

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA Evidence Type				;	R	 ence Pag	ţe
The learner will:		The learner can:							
LO 1: Understand	1.1	Define Team/Teamwork							
Teamwork in	1.2	State the benefit (s) of working as a Team							
Equipment Operation	1.3	State the challenges of Teamwork							
-									
LO 2:	2.1	Recognise the qualities of a good Leader,							
Understand	2.2	Explain the benefits of good Leadership							
Leadership in Teamwork	2.3	State the benefits of loyalty and confidentiality							
LO 3: Understand	3.1	Recognise the essence of good working relationship in a Team							
good working relationship	3.2	Explain the contributions of other Team members to ensure good health and social wellbeing in the workplace.							
in a Team	3.3	Identify strategies for good working relationship							
	3.4	Explain organizational code of conduct for own job and teamwork.							
	3.5	Report activities of the teamwork that may negatively affect organizational code of conduct to the appropriate authority.							

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date

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